

Product Name: AX5700 Tri-Band Gibabit Wi-Fi 6E Router	Report No: FCC022022-5924RF1
Product Model: RX27 Pro;TX27 Pro	Security Classification: Open
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# TIRT Testing Report



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# FCC Radio Test Report

## FCC ID: V7TRX27P

This report concerns: Original Grant

**Project No.** : 022022-5924  
**Equipment** : AX5700 Tri-Band Gigabit Wi-Fi 6E Router  
**Brand Name** : Tenda  
**Test Model** : RX27 Pro  
**Series Model** : TX27 Pro  
**Applicant** : SHENZHEN TENDA TECHNOLOGY CO.,LTD.  
**Address** : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052  
**Manufacturer** : SHENZHEN TENDA TECHNOLOGY CO.,LTD.  
**Address** : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052  
**Date of Receipt** : Aug. 12, 2022  
**Date of Test** : Aug. 12, 2022~Sep. 30, 2022  
**Issued Date** : Dec. 23, 2022  
**Report Version** : V1.0  
**Test Sample** : Engineering Sample No.: 20220814019908  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart C  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
FCC KDB 662911 D01 Multiple Transmitter Output v02r01  
ANSI C63.10-2013

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.

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**REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
FCC022022-5924RF1	V1.0	Original Report.	Dec. 23, 2022	Valid

### 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	-----
15.247(e)	Power Spectral Density	APPENDIX H	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

### 1.1 TEST FACILITY

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6049.01
FCC Accredited Lab. Designation Number:	CN1309
FCC Test Firm Registration Number:	825524
Telephone:	+86-0755-27087573

### 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))  
 The TIRT measurement uncertainty as below table:

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	±142.12kHz
RF power conducted	±0.74dB
RF power radiated	±3.25dB
Spurious emissions, conducted (9kHz~40GHz)	±1.78dB
Spurious emissions, radiated (9kHz~30MHz)	±2.8dB
Spurious emissions, radiated (30MHz~1GHz)	±4.6dB
Spurious emissions, radiated (1GHz ~ 18GHz)	±4.9dB
Spurious emissions, radiated (18GHz ~ 40GHz)	±5.54dB
Conduction Emissions(150kHz~30MHz)	±3.1dB
Humidity	±4.6%
Temperature	±0.7°C
Time	±1.25%

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.




### 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	24°C	54%	AC 120V/60Hz	Stone Tang
Radiated Emissions-9kHz to 30 MHz	25°C	55%	PoE 48V	Stone Tang
Radiated Emissions-30MHz to 1000MHz	23°C	53%	PoE 48V	Stone Tang
Radiated Emissions-Above 1000MHz	23°C	53%	PoE 48V	Stone Tang
Bandwidth	23-24°C	52-60%	PoE 48V	Stone Tang
Maximum Output Power	23.4°C	63.5%	PoE 48V	Stone Tang
Conducted Spurious Emissions	23-24°C	52-60%	PoE 48V	Stone Tang
Power Spectral Density	23-24°C	52-60%	PoE 48V	Stone Tang

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX5700 Tri-Band Gigabit Wi-Fi 6E Router
Brand Name	Tenda
Test Model	RX27 Pro
Series Model	TX27 Pro
Model Difference(s)	Only differ in model name.
Power Source	DC voltage supplied from AC adapter. Model: BN026-A24012U
Power Rating	I/P: 100-240V~ 50/60Hz 0.7A    O/P: 12.0V  2.0A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 450 Mbps IEEE 802.11ax: up to 860.4 Mbps
Maximum Output Power Non Beamforming	IEEE 802.11n20: 29.78 dBm (0.9506 W)
Maximum Output Power Beamforming	IEEE 802.11ax20: 26.49 dBm (0.4457 W)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

## 2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

## 3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Tenda	RX27V1.0	Dipole	N/A	4.84
2	Tenda	RX27V1.0	Dipole	N/A	4.84
3	Tenda	RX27V1.0	Dipole	N/A	4.84

## Note:

- 1) This EUT supports CDD, and all antennas have the same gain, Directional gain =  $G_{ANT} + \text{Array Gain}$ . For power measurements, Array Gain=0dB ( $N_{ANT} \leq 4$ ), so the Directional gain=4.84. For power spectral density measurements,  $N_{ANT}=3$ ,  $N_{SS} = 1$ . So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 4.84 + 10\log(3/1)\text{dBi} = 9.61$ . Then, the power spectral density limit is  $8 - (9.61 - 6) = 4.39$ .
- 2) Beamforming Gain: 4.5dB. Then Directional gain= $4.5 + 4.84 = 9.34$ . So the power limit is  $30 - (9.34 - 6) = 26.66$ .
- 3) The antenna gain and beamforming gain are provided by the manufacturer.

## 4. Table for Antenna Configuration:

Operating Mode	TX Mode	1TX	3TX
	IEEE 802.11b		V(Ant. 1)
IEEE 802.11g		V(Ant. 1)	-
IEEE 802.11n(HT20)		-	V(Ant. 1 + Ant. 2 + Ant. 3)
IEEE 802.11n(HT40)		-	V(Ant. 1 + Ant. 2 + Ant. 3)
IEEE 802.11ax(HE20)		-	V(Ant. 1 + Ant. 2 + Ant. 3)
IEEE 802.11ax(HE40)		-	V(Ant. 1 + Ant. 2 + Ant. 3)

## 2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09
Mode 7	TX N(HT20) Mode Channel 06

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

<b>AC power line conducted emissions test</b>	
Final Test Mode	Description
Mode 7	TX N(HT20) Mode Channel 06

<b>Radiated emissions test - Below 1GHz</b>	
Final Test Mode	Description
Mode 7	TX N(HT20) Mode Channel 06

<b>Radiated emissions test- Above 1GHz</b>	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Conducted test	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

**NOTE:**

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX N(HT20) Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (4) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (5) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

### 2.3 PARAMETERS OF TEST SOFTWARE

#### Non Beamforming

Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	108	108	108
IEEE 802.11g	95	108	97
IEEE 802.11n(HT20)	77	100	78
IEEE 802.11ax(HE20)	75	99	75
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	75	82	75
IEEE 802.11ax(HE40)	73	80	73

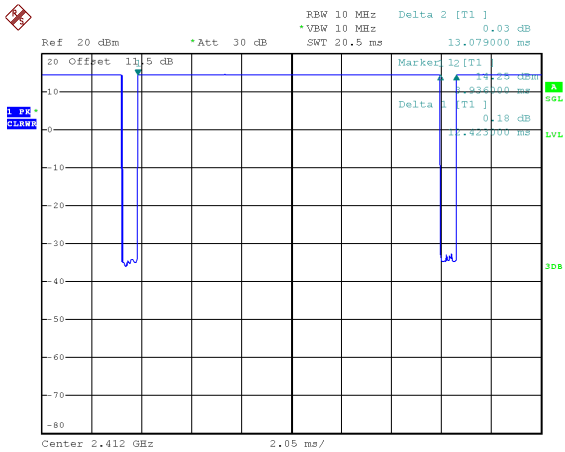
#### Beamforming

Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	76	87	77
IEEE 802.11ax(HE20)	74	86	74
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	74	81	74
IEEE 802.11ax(HE40)	72	79	72

### 2.4 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.  
 If duty cycle is  $< 98\%$ , duty factor shall be considered.  
 The output power = measured power + duty factor.

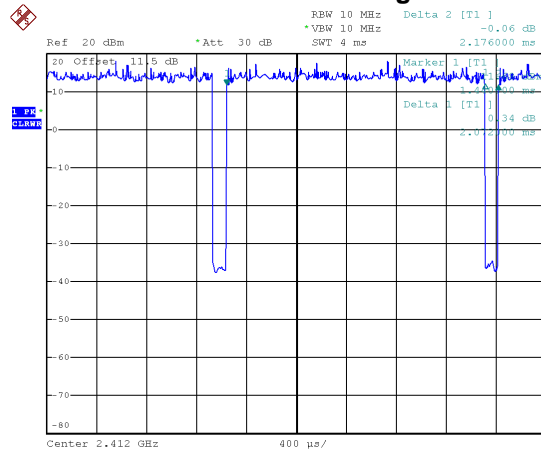
**IEEE 802.11b**



Date: 14.SEP.2022 16:22:44

Duty cycle = 12.423 ms / 13.079 ms = 94.98%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.22$

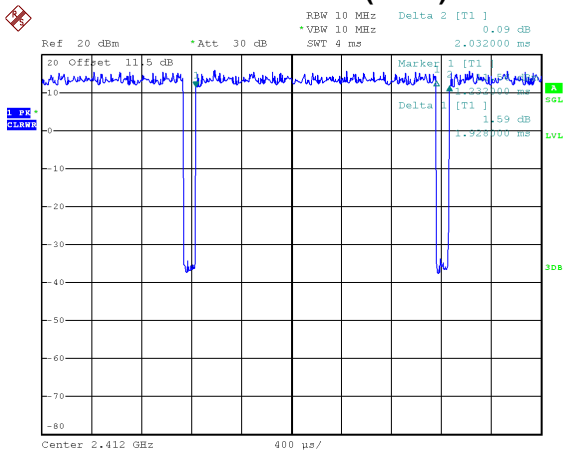
**IEEE 802.11g**



Date: 30.AUG.2022 11:34:48

Duty cycle = 2.072 ms / 2.176 ms = 95.22%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.21$

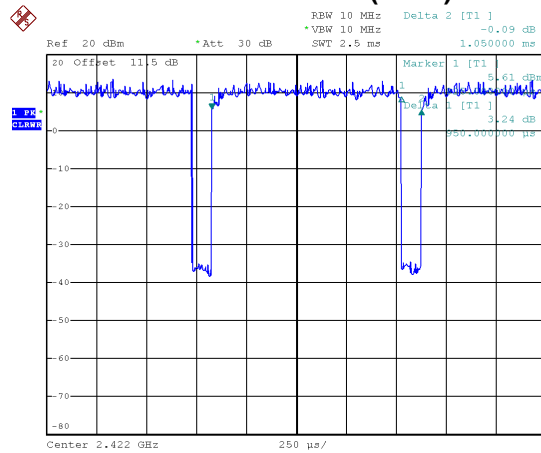
**IEEE 802.11n(HT20)**



Date: 30.AUG.2022 11:35:10

Duty cycle = 1.928 ms / 2.032 ms = 94.88%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.23$

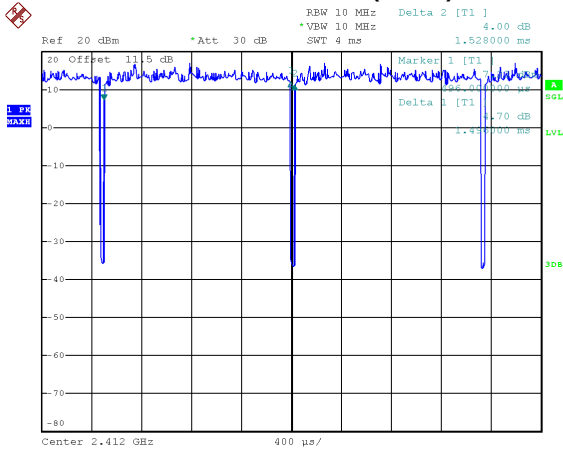
**IEEE 802.11n(HT40)**



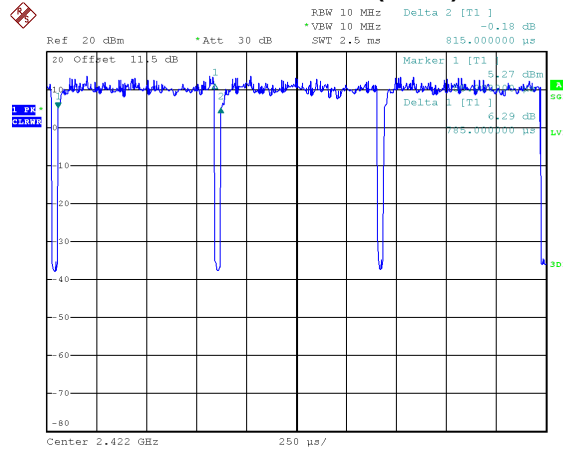
Date: 30.AUG.2022 11:45:27

Duty cycle = 0.950 ms / 1.050 ms = 90.48%  
 Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.43$

### IEEE 802.11ax(HE20)



### IEEE 802.11ax(HE40)



Date: 30.AUG.2022 11:43:29

Date: 30.AUG.2022 11:44:30

Duty cycle = 1.496 ms / 1.528 ms = 97.91%  
 Duty Factor = 10 log(1/Duty cycle) = 0.09

Duty cycle = 0.785 ms / 0.815 ms = 96.32%  
 Duty Factor = 10 log(1/Duty cycle) = 0.16

**NOTE:**

For IEEE 802.11b:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 80 Hz.

For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 483 Hz.

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 519 Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1053 Hz.

For IEEE 802.11ax(HE20):

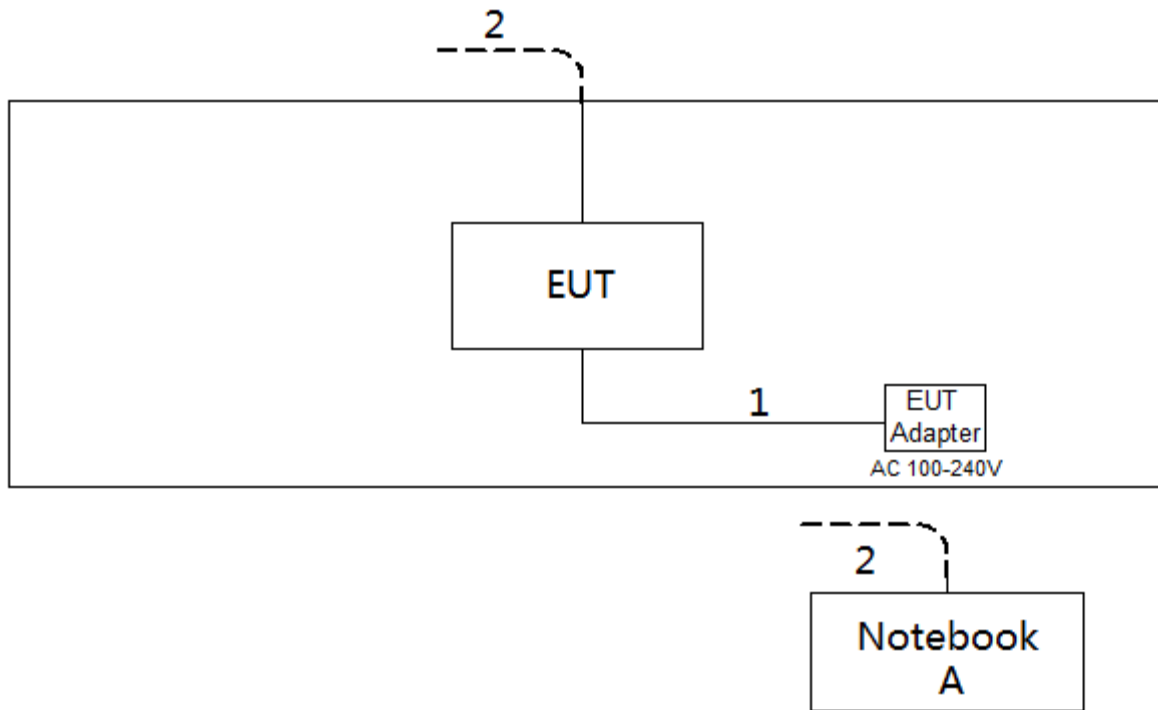
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 668 Hz.

For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1274 Hz.



**2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**



**2.6 SUPPORT UNITS**

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

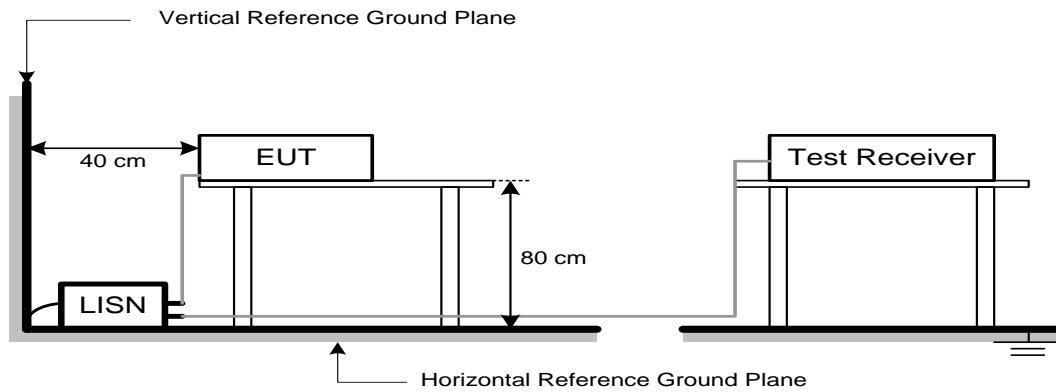
The following table is the setting of the receiver:

Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

### 3.4 TEST SETUP



### 3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

### 3.6 TEST RESULTS

Please refer to the APPENDIX A.

## 4. RADIATED EMISSIONS

### 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

**NOTE:**

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

## 4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.  
(below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

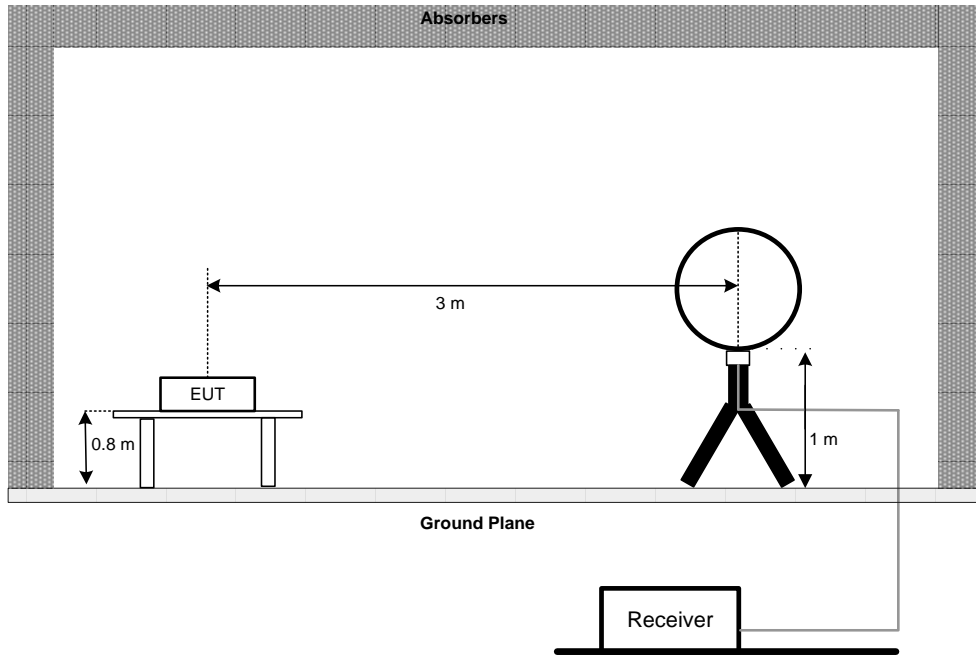
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

**4.3 DEVIATION FROM TEST STANDARD**

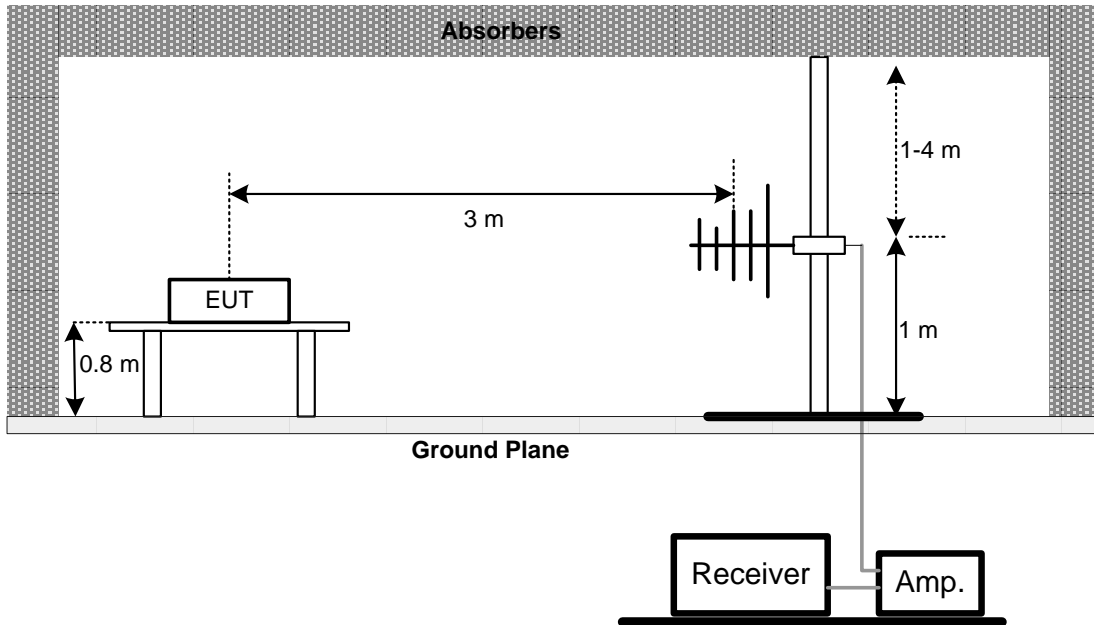
No deviation.

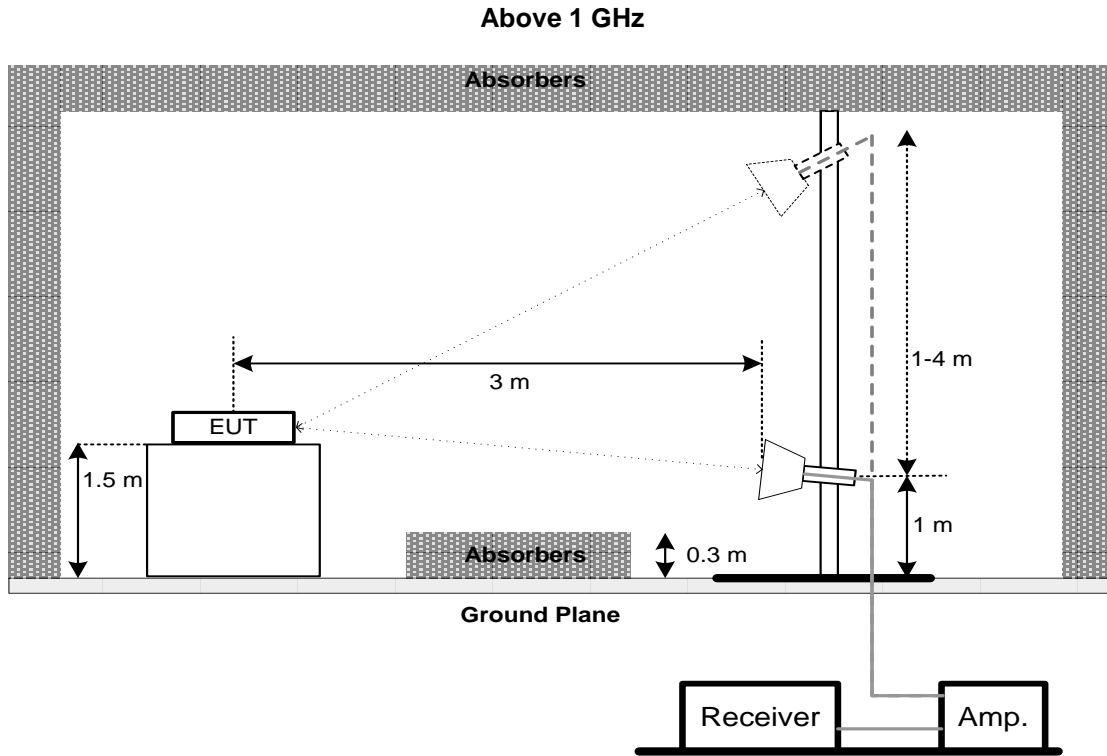
**4.4 TEST SETUP**

**9 kHz to 30 MHz**



**30 MHz to 1 GHz**





**4.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**4.6 TEST RESULTS - 9 KHZ TO 30 MHZ**

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

**4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ**

Please refer to the APPENDIX C.

**4.8 TEST RESULTS - ABOVE 1000 MHZ**

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. BANDWIDTH

### 5.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

### 5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span Frequency	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULTS

Please refer to the APPENDIX E.



## 6. MAXIMUM OUTPUT POWER

### 6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 Watt or 30.00 dBm

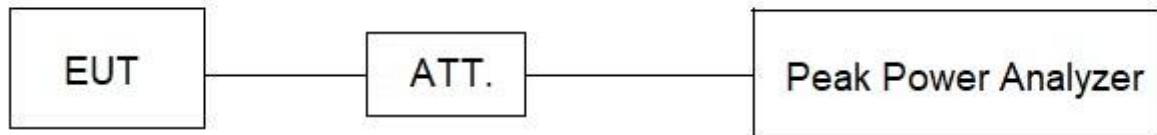
### 6.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULTS

Please refer to the APPENDIX F.

## 7. CONDUCTED SPURIOUS EMISSIONS

### 7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

### 7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULTS

Please refer to the APPENDIX G.

## 8. POWER SPECTRAL DENSITY

### 8.1 LIMIT

Section	Test Item	Limit
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

### 8.2 TEST PROCEDURE

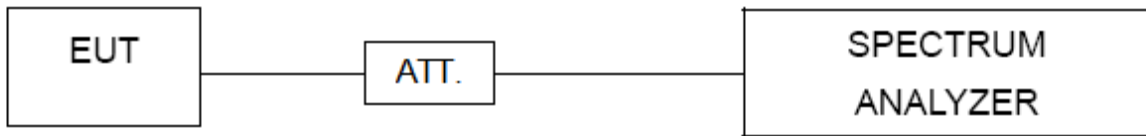
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 TEST RESULTS

Please refer to the APPENDIX H.

**9. MEASUREMENT INSTRUMENTS LIST**

No.	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Receiver	Rohde&Schwarz	ESCI	1166.5950.03	2022/11/09
2	AMN	Rohde&Schwarz	ENV216	3560.6550.05	2022/11/09
3	AMN	Schwarzbeck	NSLK8127	#829	2022/11/09
4	ECSI RF IN RF Cable	Rohde&Schwarz	RP-X1	N/A	2022/11/09
5	ECSI RF IN RF Cable	Rohde&Schwarz	Sapre sm	N/A	2022/11/09
6	EMI Receiver	Rohde&Schwarz	ESR7	102013	2022/11/09
7	Spectrum analyzer	Rohde&Schwarz	FSV30	103741	2022/11/09
8	Spectrum analyzer	KEYSIGHT	N9010A-44	MY51440158	2022/11/09
9	Log periodic antenna	Schwarzbeck	VULB 9163	VULB 9163-361	2022/11/20
10	Loop Antenna	Schwarzbeck	FMZB1519 B	00029	2023/07/03
11	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1201	2022/11/20
12	Horn Antenna	Schwarzbeck	BBHA 9170	9170#685	2022/11/20
13	Preamplifier	Schwarzbeck	BBV9745	#78	2022/11/09
14	Preamplifier	Schwarzbeck	BBV9721	9721-019	2022/11/09
15	Preamplifier	/	LNA 0920N	2014	2023/05/03
16	Preamplifier	Schwarzbeck	BBV 9718	284	2023/05/03
17	Preamplifier	RF System/UK	TRLA-0101 80G50B	22062101	2023/07/20
18	ECSI RF IN RF Cable	Rohde&Schwarz	AP-X1	N/A	2022/11/09
19	ECSI RF IN RF Cable	HAOXUN	Z-108	N/A	2022/11/09
20	RF Cable	ZDECL	ZT40-2.92J -2.92J-6M	18124358	2023/07/20
21	Spectrum Analyzer	Agilent	N9010A	MY51440158	2022/11/09
22	Spectrum Analyzer	Agilent	N9010A	MY52221119	2022/11/09
23	EMI Receiver	Rohde&Schwarz	ESU	100184	2023/07/20
24	Temp&Humidity Recorder	Anymetre	JR900	N/A	2022/11/03
25	Power Collection Unit	Tonscend	JS0806-2	188060134	2023/08/21
26	Temp&Humidity Chamber	ETOMA	NTH1100-3 0A	16080628	2022/11/03
27	Filter	STI	STI15-9845	N/A	N/A
28	Filter	STI	5.1G	N/A	N/A
29	Filter	STI	STI15-9845	N/A	N/A
30	Testing Software	EZ-EMC	TW-03A2	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.

"\*\*" calibration period of equipment list is three year.

Except \* item, all calibration period of equipment list is one year.

**10. EUT TEST PHOTO****AC Power Line Conducted Emissions Test Photos**

**Radiated Emissions Test Photos**

**30 MHz to 1 GHz**



**Radiated Emissions Test Photos**

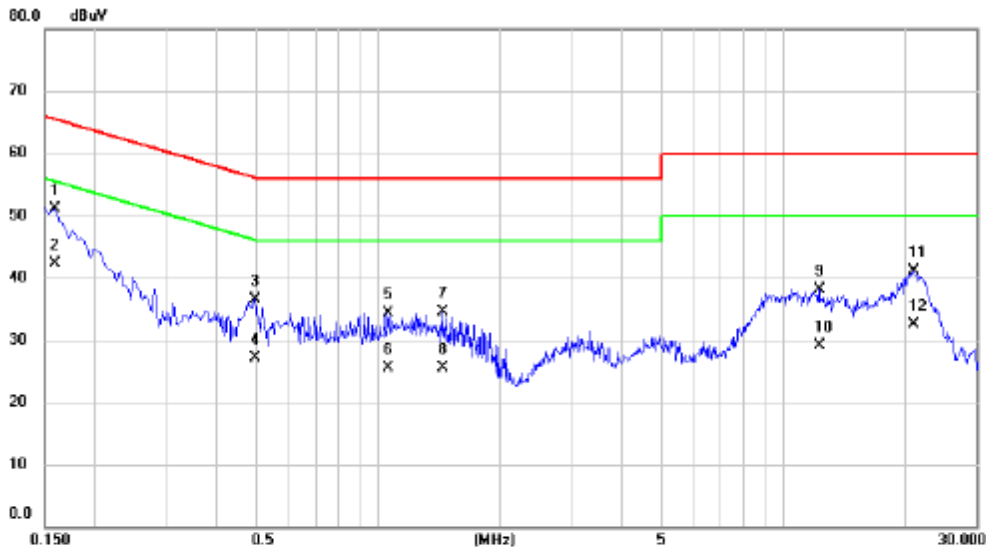
**Above 1 GHz**



## **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**



Test Mode	TX N(HT20) Mode Channel 06	Phase	Line
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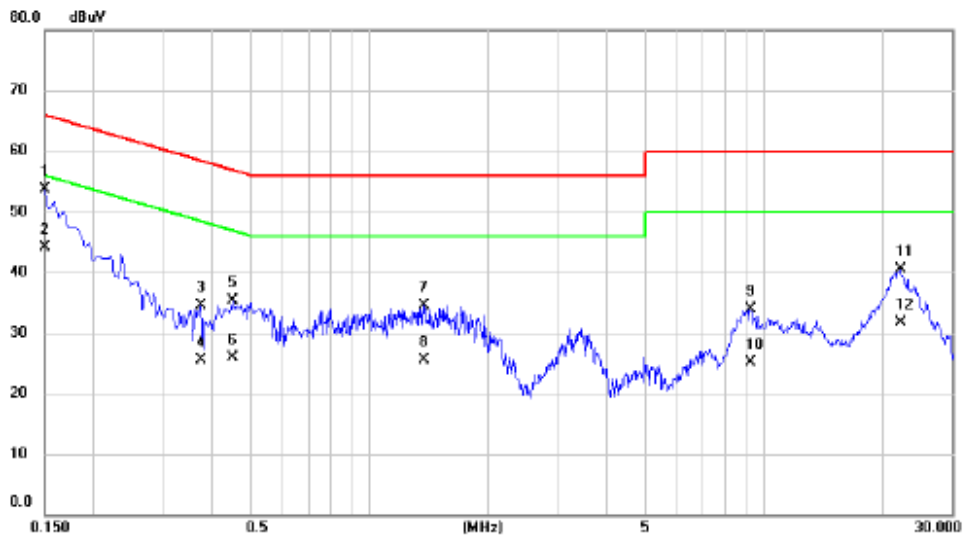


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1590	31.67	19.51	51.18	65.52	-14.34	QP	
2 *	0.1590	22.74	19.51	42.25	55.52	-13.27	AVG	
3	0.4965	16.99	19.53	36.52	56.06	-19.54	QP	
4	0.4965	7.63	19.53	27.16	46.06	-18.90	AVG	
5	1.0590	14.62	19.67	34.29	56.00	-21.71	QP	
6	1.0590	5.85	19.67	25.52	46.00	-20.48	AVG	
7	1.4415	14.68	19.79	34.47	56.00	-21.53	QP	
8	1.4415	5.65	19.79	25.44	46.00	-20.56	AVG	
9	12.2775	17.61	20.55	38.16	60.00	-21.84	QP	
10	12.2775	8.49	20.55	29.04	50.00	-20.96	AVG	
11	20.9670	20.15	20.88	41.03	60.00	-18.97	QP	
12	20.9670	11.63	20.88	32.51	50.00	-17.49	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode Channel 06	Phase	Neutral
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBUv	Over dB	Detector	Comment
1		0.1500	33.92	19.70	53.62	66.00	-12.38	QP	
2	*	0.1500	24.50	19.70	44.20	56.00	-11.80	AVG	
3		0.3750	14.74	19.70	34.44	58.39	-23.95	QP	
4		0.3750	5.77	19.70	25.47	48.39	-22.92	AVG	
5		0.4515	15.62	19.73	35.35	56.85	-21.50	QP	
6		0.4515	6.26	19.73	25.99	46.85	-20.86	AVG	
7		1.3740	14.45	20.01	34.46	56.00	-21.54	QP	
8		1.3740	5.47	20.01	25.48	46.00	-20.52	AVG	
9		9.2400	13.48	20.47	33.95	60.00	-26.05	QP	
10		9.2400	4.57	20.47	25.04	50.00	-24.96	AVG	
11		22.2764	20.13	20.37	40.50	60.00	-19.50	QP	
12		22.2764	11.35	20.37	31.72	50.00	-18.28	AVG	

**REMARKS:**

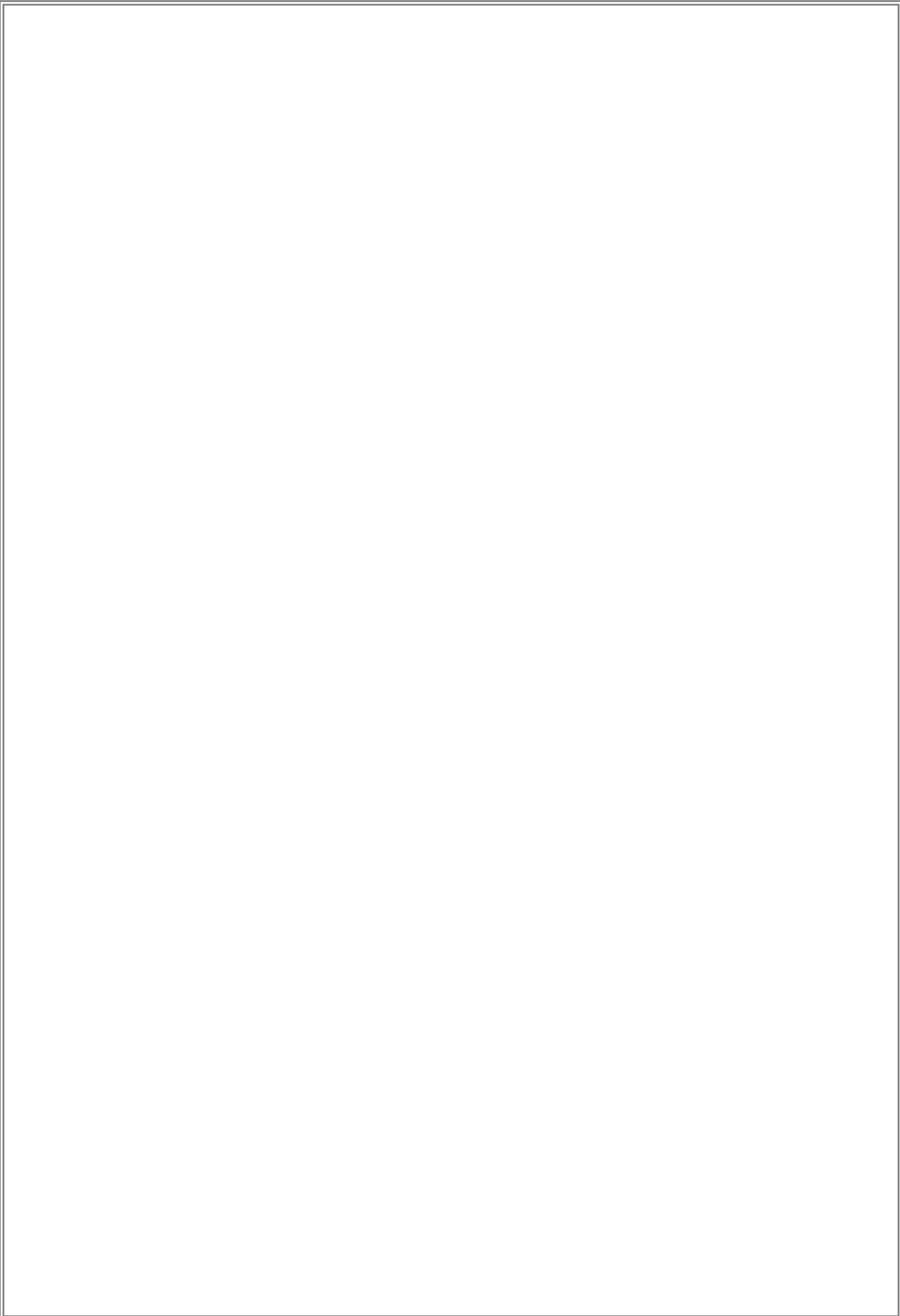
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

Radiated emission: 9kHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.



Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 0°
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**REMARKS:**

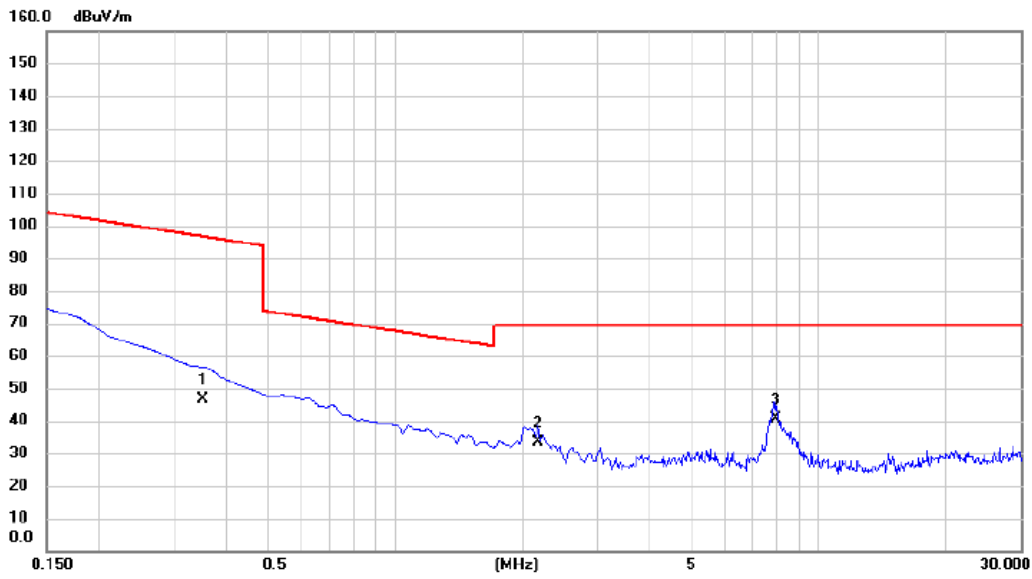
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3502	33.09	13.49	46.58	96.72	-50.14	AVG	
2	2.1798	21.39	11.89	33.28	69.54	-36.26	QP	
3 *	7.9410	29.24	11.53	40.77	69.54	-28.77	QP	

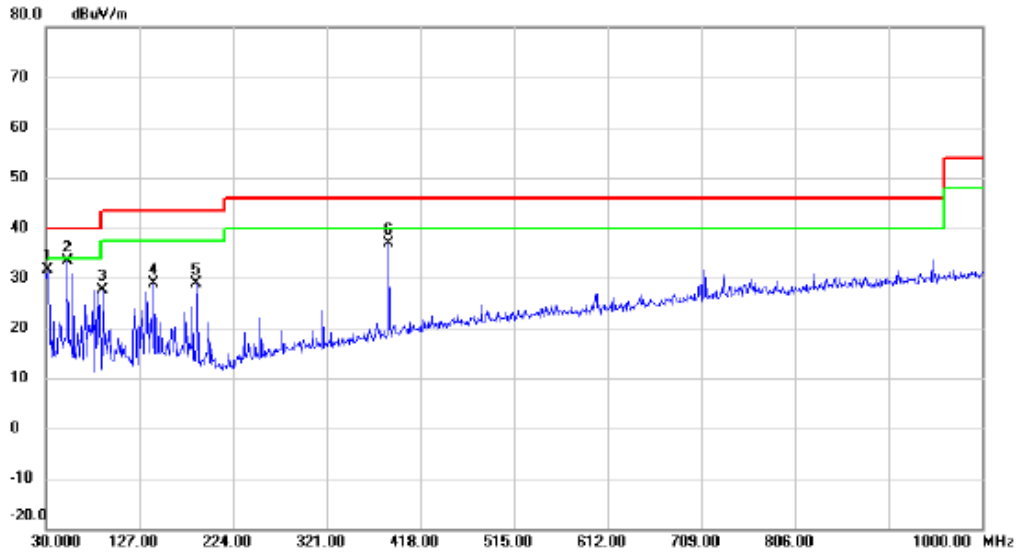
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ**



Test Mode	TX N(HT20) Mode Channel 06	Polarization	Vertical
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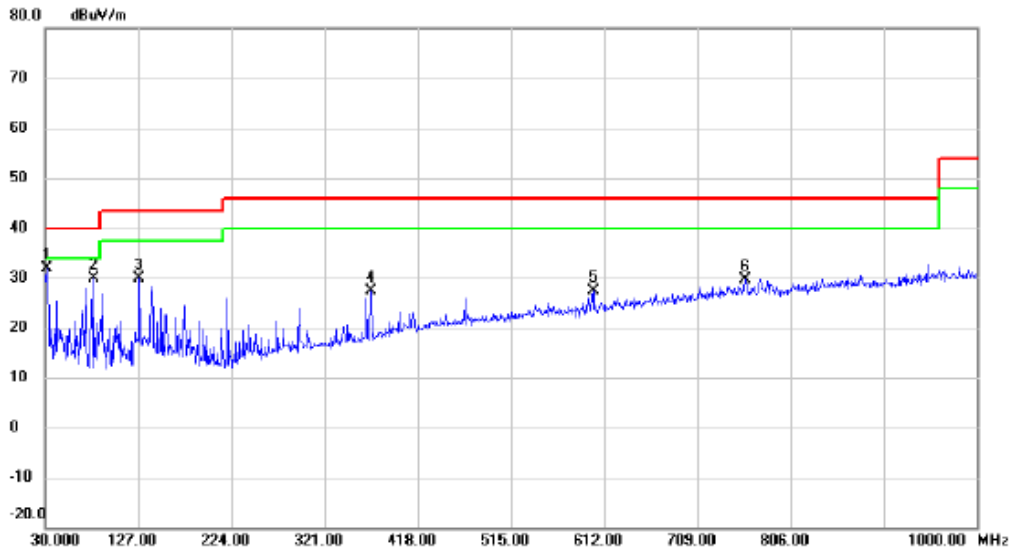


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	31.9400	16.84	14.85	31.69	40.00	-8.31	peak	
2 *	52.3100	17.91	15.36	33.27	40.00	-6.73	peak	
3	89.1700	11.93	15.68	27.61	43.50	-15.89	peak	
4	141.5500	12.82	16.14	28.96	43.50	-14.54	peak	
5	186.1700	12.08	16.84	28.92	43.50	-14.58	peak	
6	385.0200	15.78	21.05	36.83	46.00	-9.17	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Horizontal
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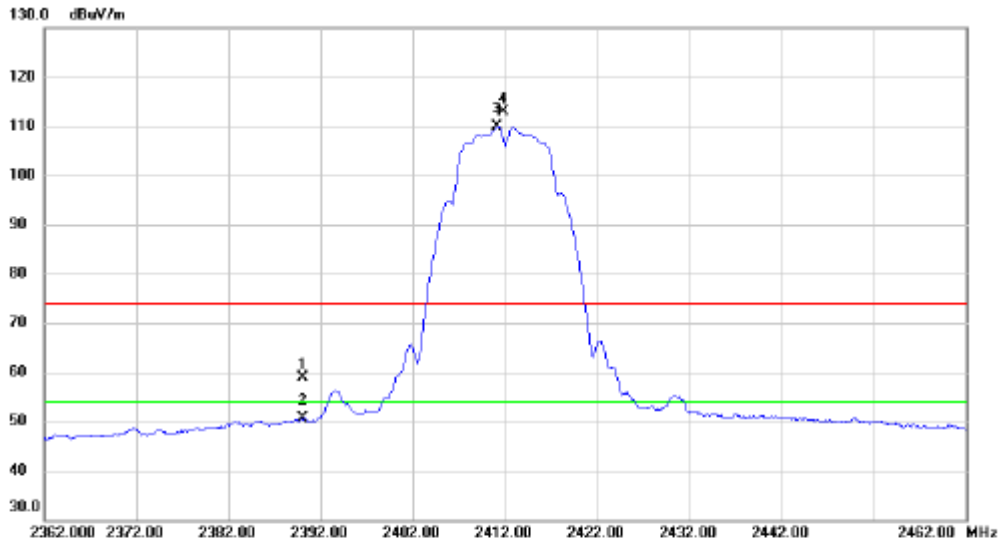
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	31.9400	20.01	11.85	31.86	40.00	-8.14	peak	
2		80.4400	16.73	13.23	29.96	40.00	-10.04	peak	
3		127.9700	16.07	13.82	29.89	43.50	-13.61	peak	
4		369.5000	6.70	20.74	27.44	46.00	-18.56	peak	
5		600.3600	1.81	25.57	27.38	46.00	-18.62	peak	
6		758.4700	1.84	27.81	29.65	46.00	-16.35	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ**

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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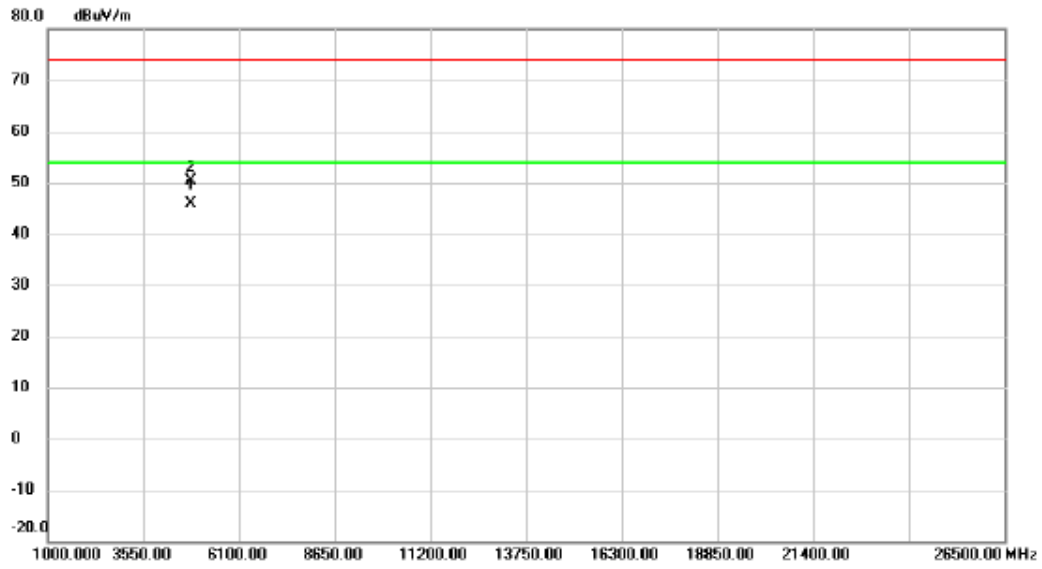


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	26.17	32.63	58.80	74.00	-15.20	peak	
2	2390.000	17.88	32.63	50.51	54.00	-3.49	AVG	
3 *	2411.200	77.19	32.70	109.89	54.00	55.89	AVG	No Limit
4 X	2411.800	80.25	32.71	112.96	74.00	38.96	peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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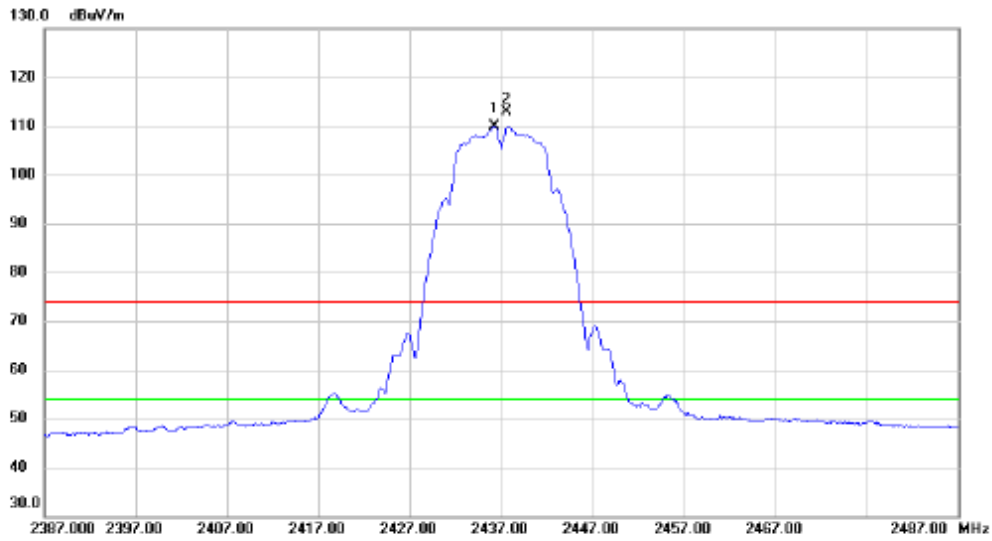


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	4824.006	60.25	-14.43	45.82	54.00	-8.18	AVG	
2	4824.104	64.83	-14.43	50.40	74.00	-23.60	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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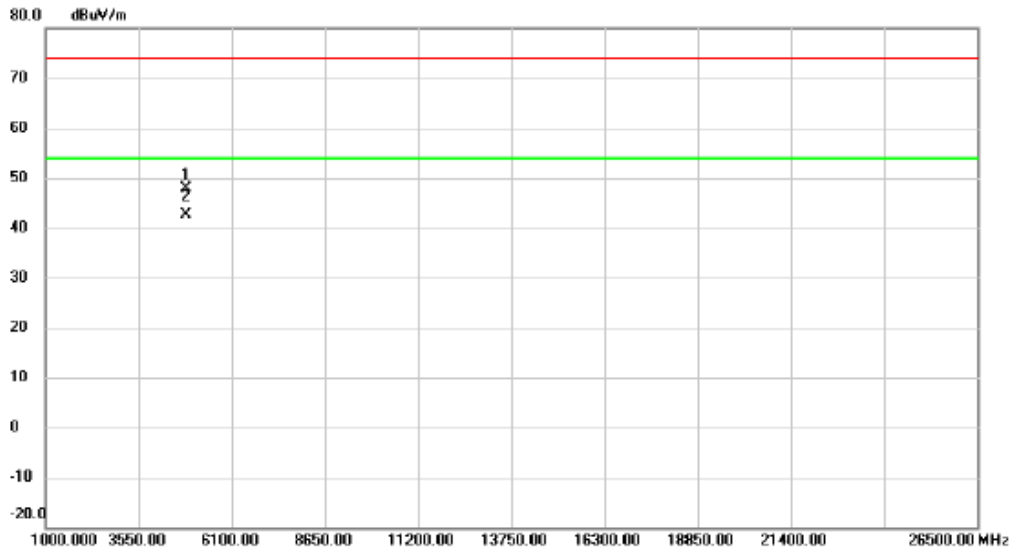
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2436.300	76.98	32.80	109.78	54.00	55.78	AVG	No Limit
2	X	2437.600	80.19	32.80	112.99	74.00	38.99	peak	No Limit

No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB			
1	*	2436.3000	102.60	7.18	109.78	54.00	55.78	AVG	No Limit
2		2437.6000	105.81	7.18	112.99	74.00	38.99	Peak	No Limit

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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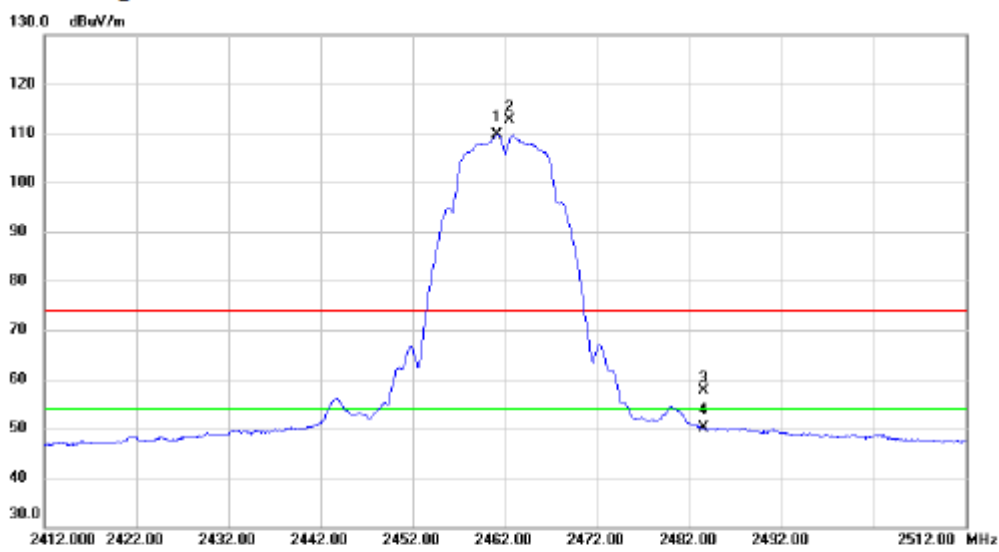


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.868	62.03	-14.26	47.77	74.00	-26.23	peak	
2	*	4874.016	56.99	-14.26	42.73	54.00	-11.27	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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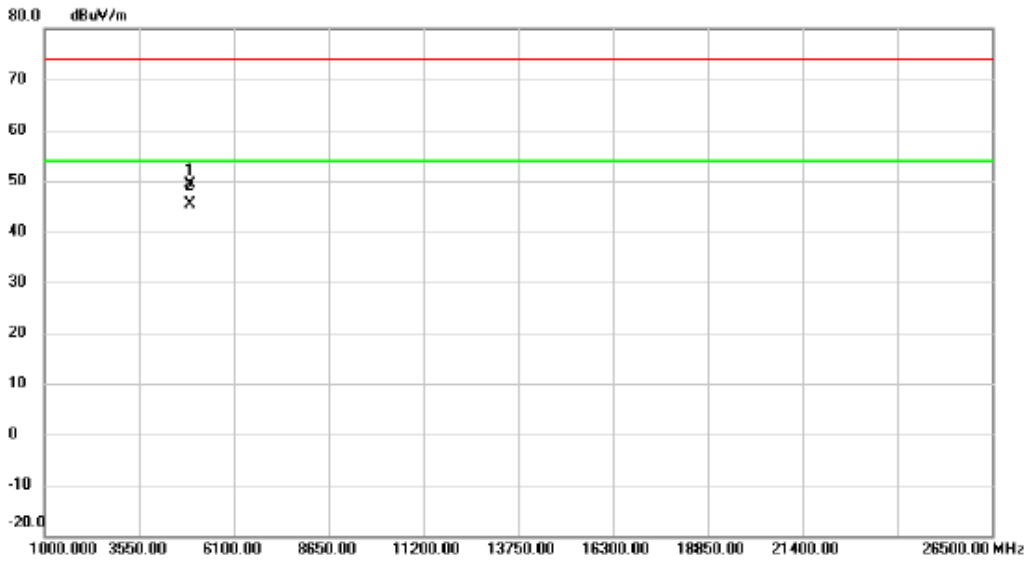
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2461.200	76.77	32.88	109.65	54.00	55.65	AVG	No Limit
2	X	2462.500	79.70	32.90	112.60	74.00	38.60	peak	No Limit
3		2483.500	24.69	32.97	57.66	74.00	-16.34	peak	
4		2483.500	17.10	32.97	50.07	54.00	-3.93	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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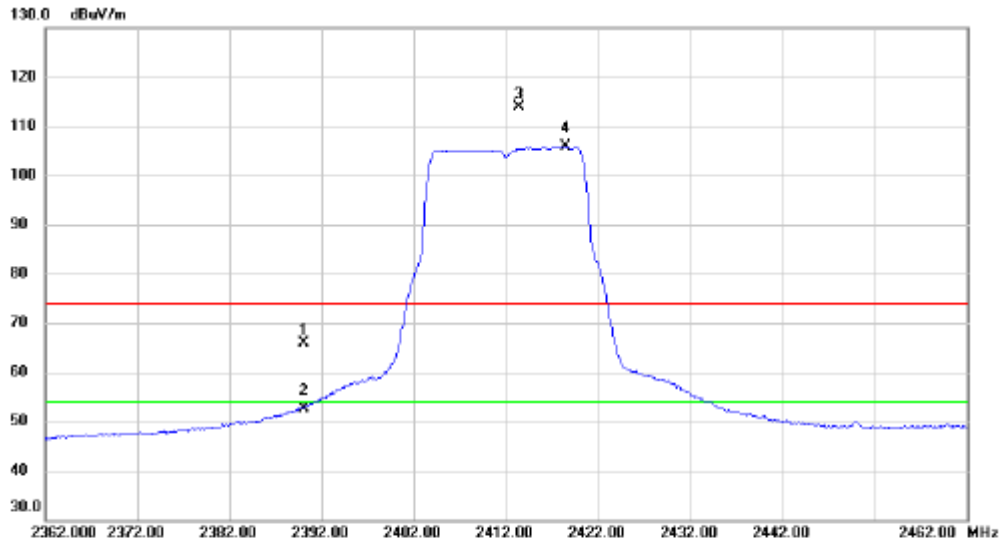


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.918	63.43	-14.08	49.35	74.00	-24.65	peak	
2 *	4924.004	59.50	-14.08	45.42	54.00	-8.58	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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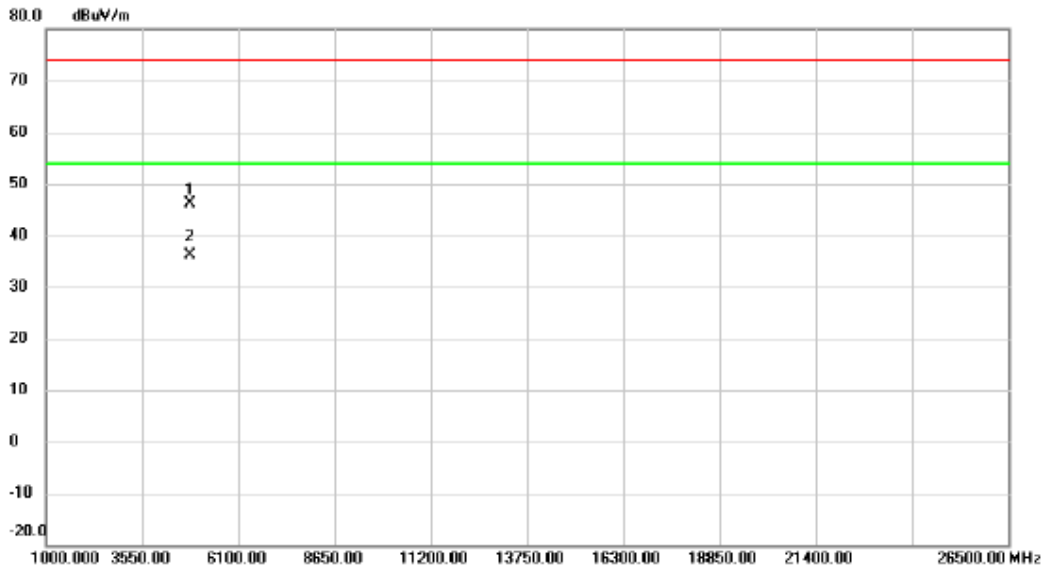


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	33.13	32.63	65.76	74.00	-8.24	peak	
2	2390.000	20.02	32.63	52.65	54.00	-1.35	AVG	
3 X	2413.400	81.16	32.72	113.88	74.00	39.88	peak	No Limit
4 *	2418.400	73.09	32.73	105.82	54.00	51.82	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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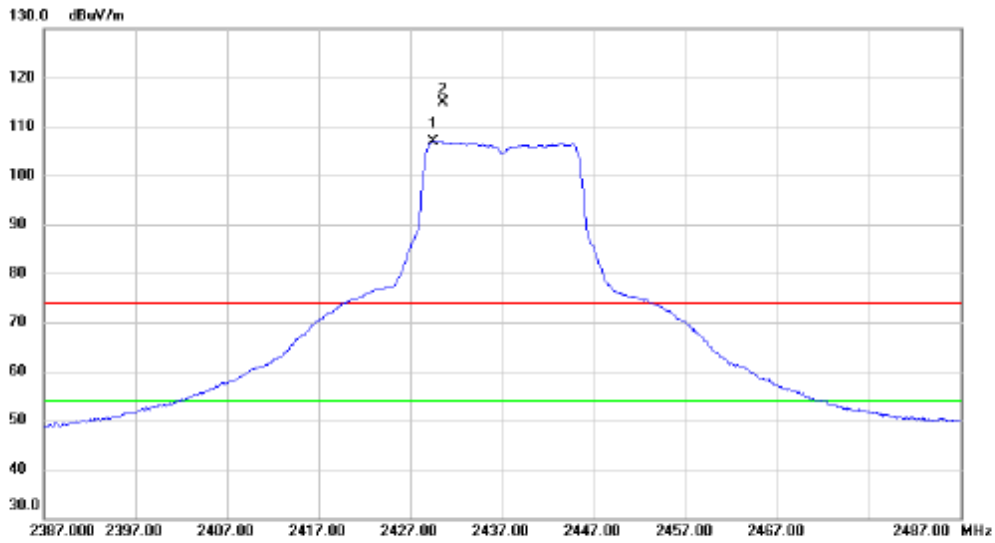


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4820.535	60.56	-14.43	46.13	74.00	-27.87	peak	
2 *	4825.782	50.64	-14.41	36.23	54.00	-17.77	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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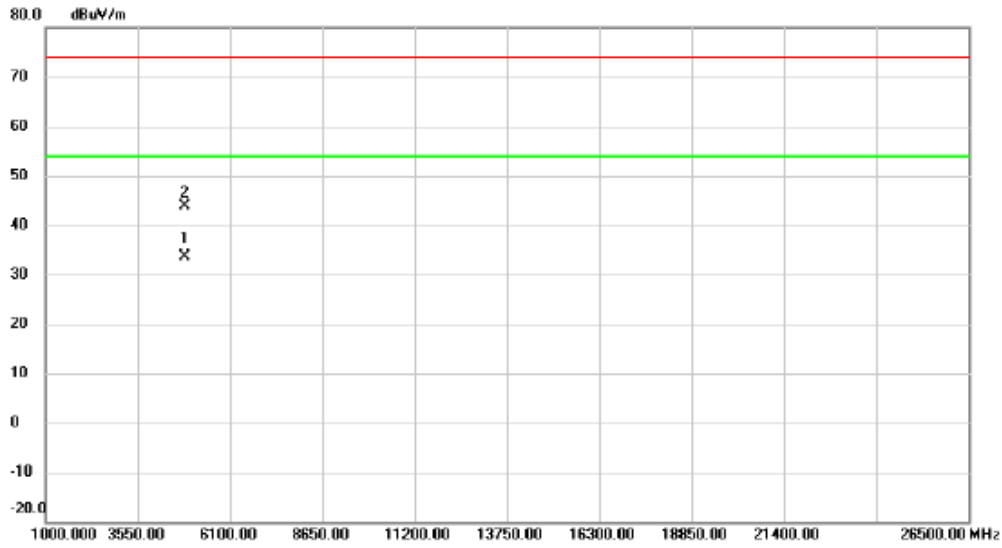


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2429.500	74.19	32.77	106.96	54.00	52.96	AVG	No Limit
2	X	2430.500	82.21	32.78	114.99	74.00	40.99	peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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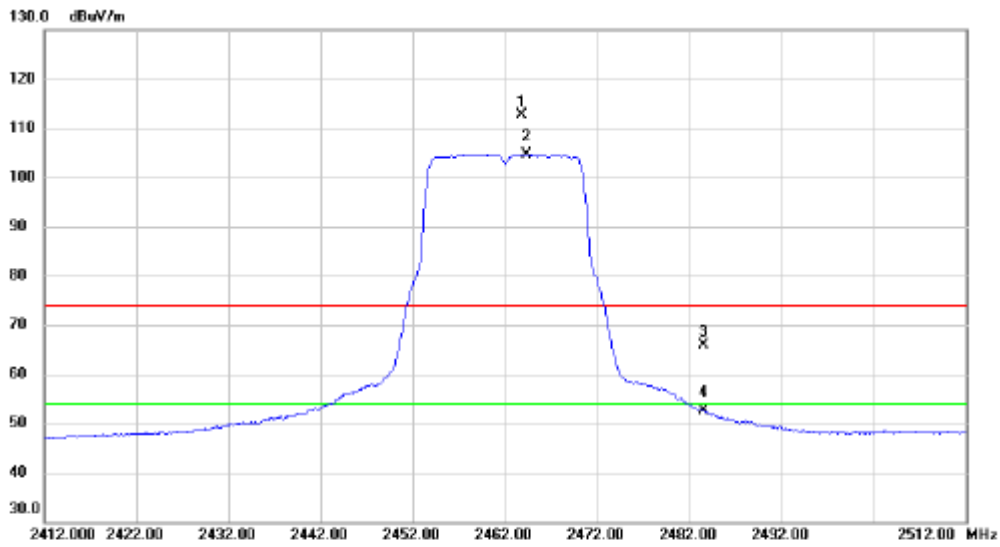


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4870.535	47.79	-14.26	33.53	54.00	-20.47	AVG	
2		4871.723	58.15	-14.26	43.89	74.00	-30.11	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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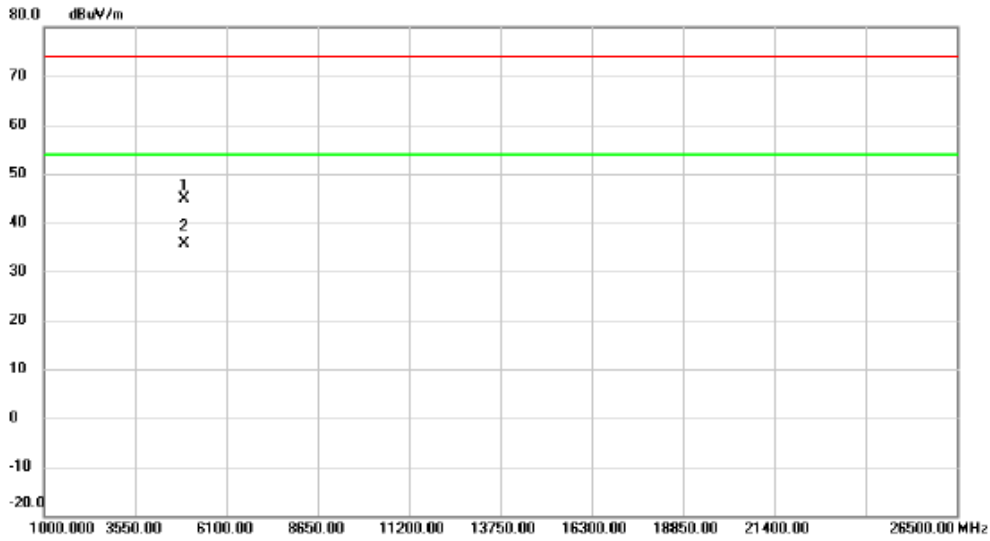


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2463.800	79.85	32.90	112.75	74.00	38.75	peak	No Limit
2	*	2464.300	71.75	32.90	104.65	54.00	50.65	AVG	No Limit
3		2483.500	32.82	32.97	65.79	74.00	-8.21	peak	
4		2483.500	19.57	32.97	52.54	54.00	-1.46	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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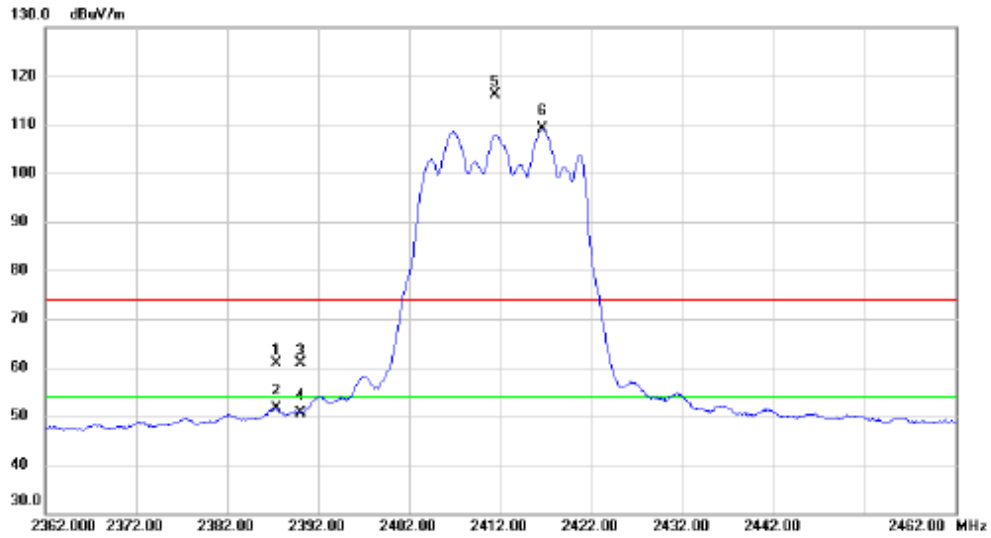


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4918.060	59.06	-14.10	44.96	74.00	-29.04	peak	
2 *	4923.406	49.64	-14.08	35.56	54.00	-18.44	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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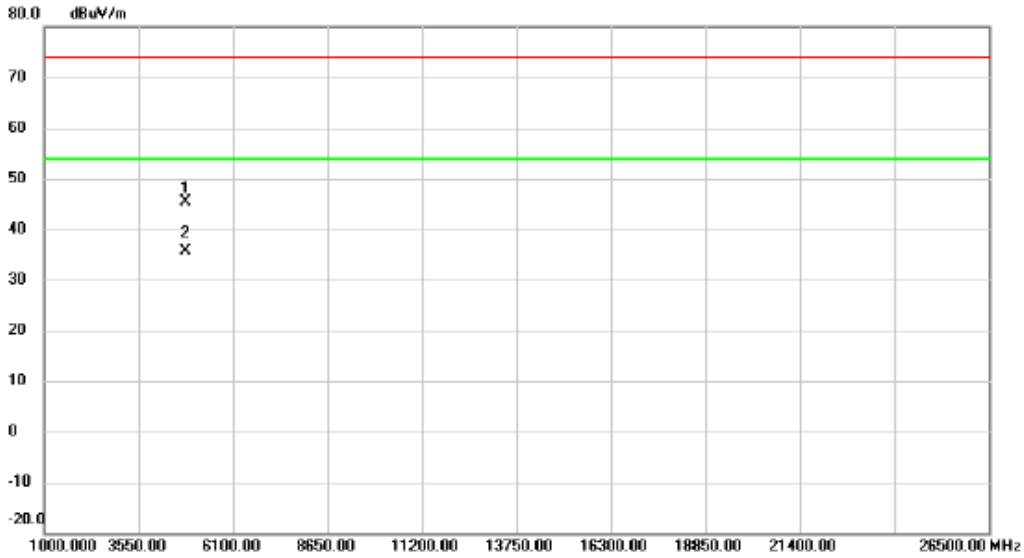
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2387.400	28.31	32.62	60.93	74.00	-13.07	peak	
2		2387.400	18.97	32.62	51.59	54.00	-2.41	AVG	
3		2390.000	28.13	32.63	60.76	74.00	-13.24	peak	
4		2390.000	18.07	32.63	50.70	54.00	-3.30	AVG	
5	X	2411.400	83.31	32.71	116.02	74.00	42.02	peak	No Limit
6	*	2416.600	76.38	32.73	109.11	54.00	55.11	AVG	No Limit

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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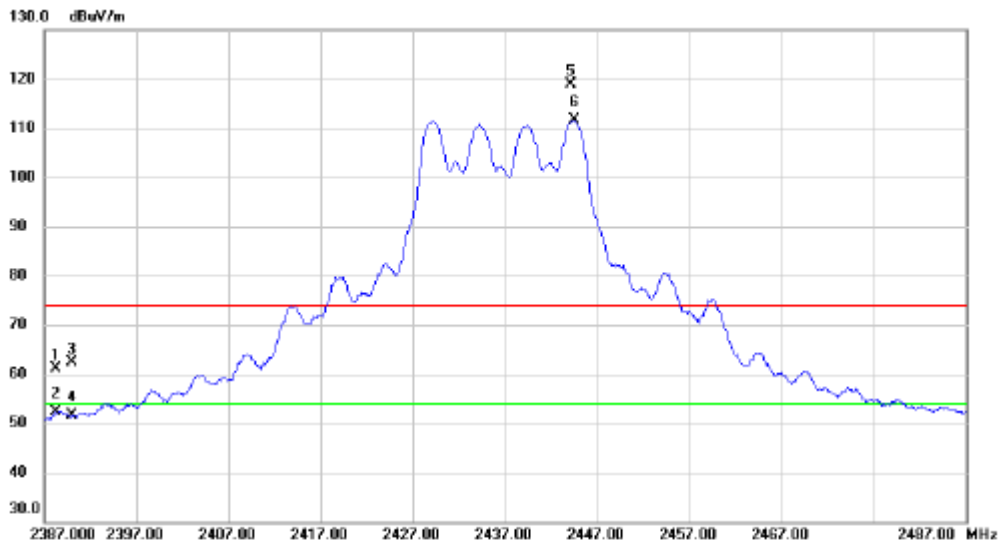


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.500	59.87	-14.43	45.44	74.00	-28.56	peak	
2 *	4824.940	49.97	-14.43	35.54	54.00	-18.46	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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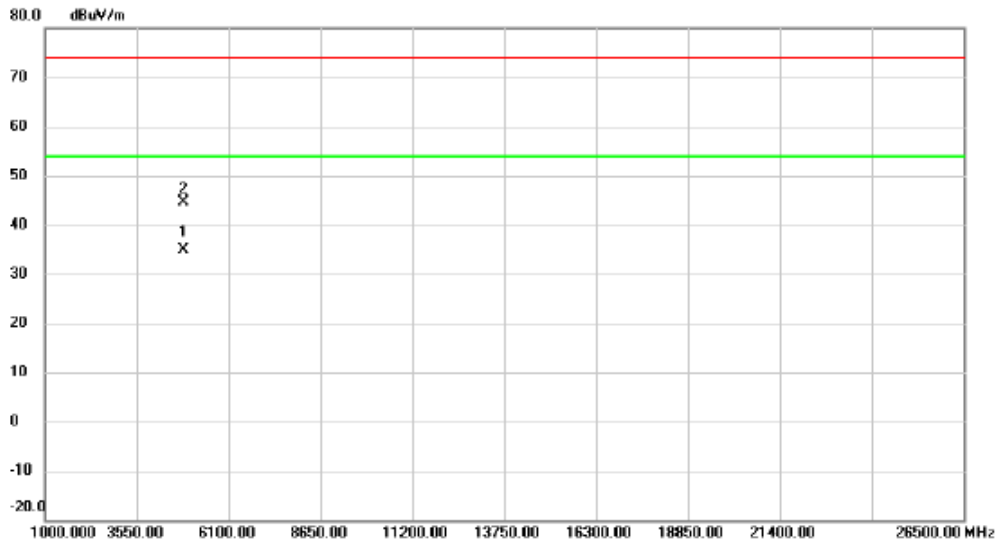


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2388.300	28.45	32.62	61.07	74.00	-12.93	peak	
2		2388.300	19.74	32.62	52.36	54.00	-1.64	AVG	
3		2390.000	29.87	32.63	62.50	74.00	-11.50	peak	
4		2390.000	18.88	32.63	51.51	54.00	-2.49	AVG	
5	X	2444.200	86.10	32.83	118.93	74.00	44.93	peak	No Limit
6	*	2444.500	78.69	32.83	111.52	54.00	57.52	AVG	No Limit

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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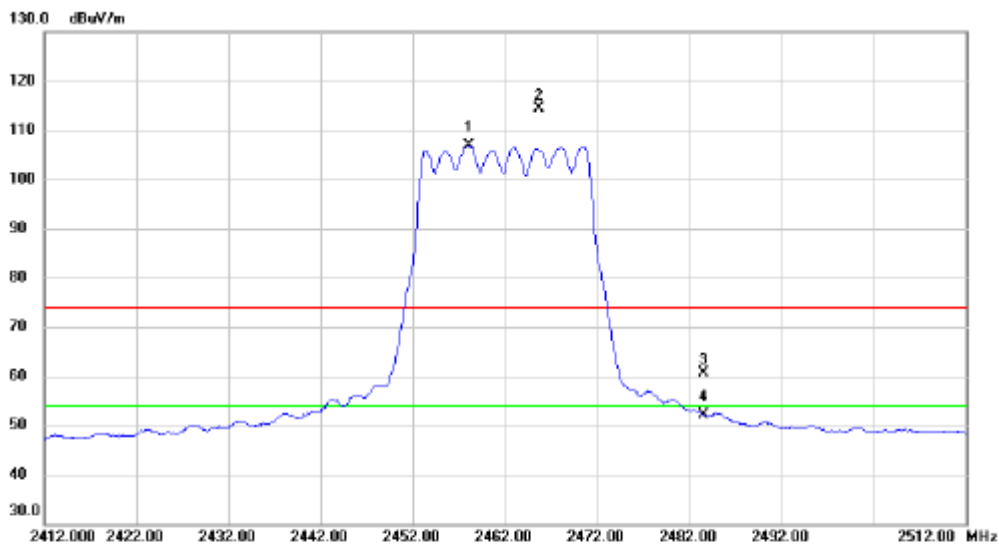


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4875.040	49.21	-14.23	34.98	54.00	-19.02	AVG	
2		4875.420	58.74	-14.23	44.51	74.00	-29.49	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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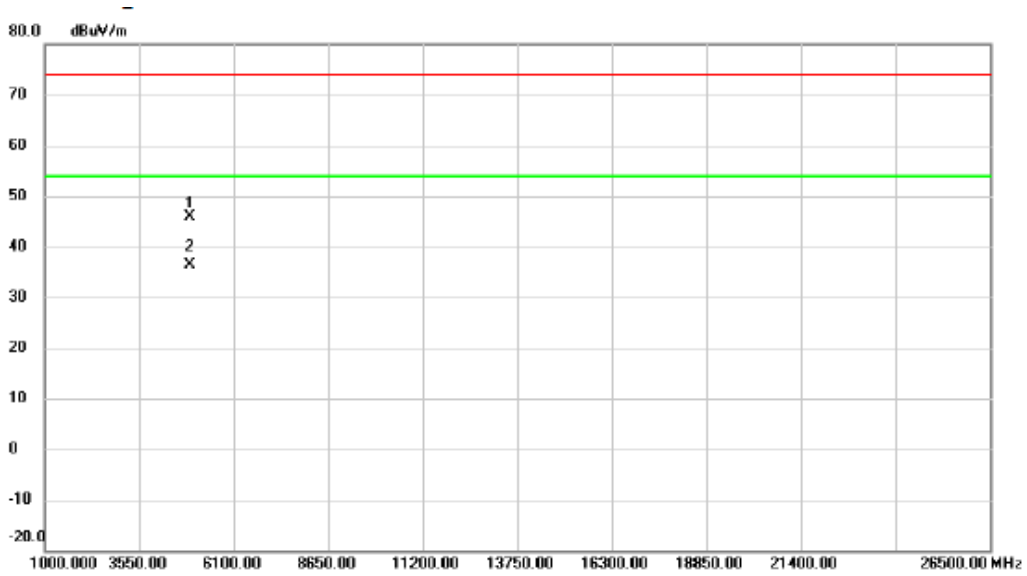


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	2458.000	73.91	32.88	106.79	54.00	52.79	AVG	No Limit
2 X	2465.700	81.43	32.90	114.33	74.00	40.33	peak	No Limit
3	2483.500	27.57	32.97	60.54	74.00	-13.46	peak	
4	2483.500	19.21	32.97	52.18	54.00	-1.82	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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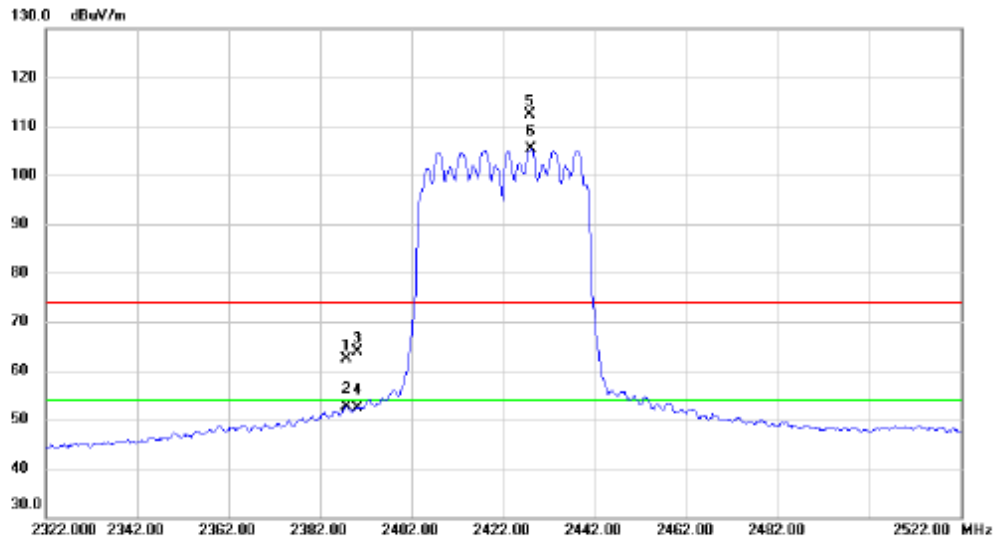


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4915.640	60.01	-14.10	45.91	74.00	-28.09	peak	
2 *	4916.200	50.38	-14.10	36.28	54.00	-17.72	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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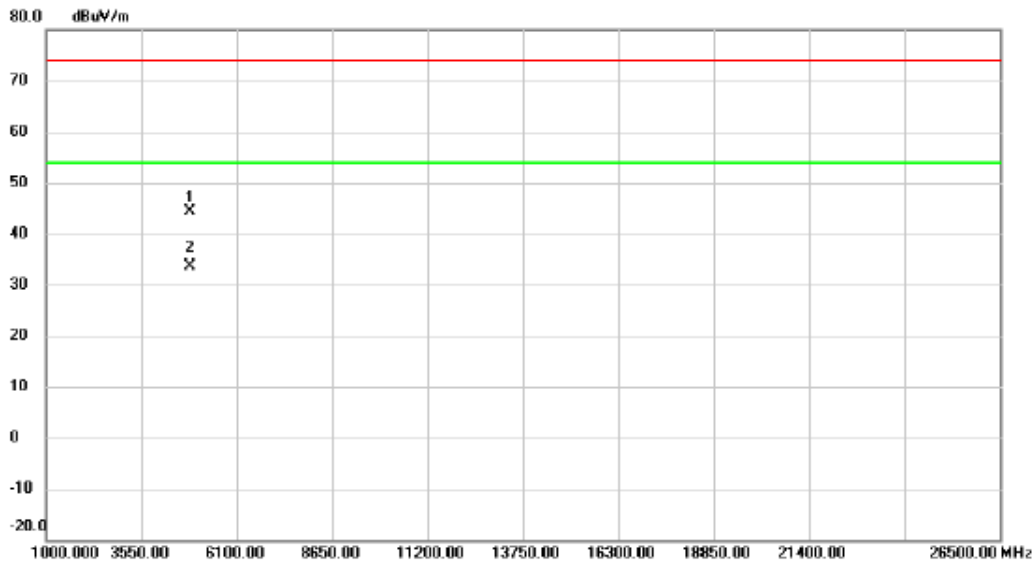


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2387.800	29.83	32.62	62.45	74.00	-11.55	peak	
2		2387.800	20.04	32.62	52.66	54.00	-1.34	AVG	
3		2390.000	31.14	32.63	63.77	74.00	-10.23	peak	
4		2390.000	19.88	32.63	52.31	54.00	-1.69	AVG	
5	X	2427.800	79.72	32.77	112.49	74.00	38.49	peak	No Limit
6	*	2428.000	72.49	32.77	105.26	54.00	51.26	AVG	No Limit

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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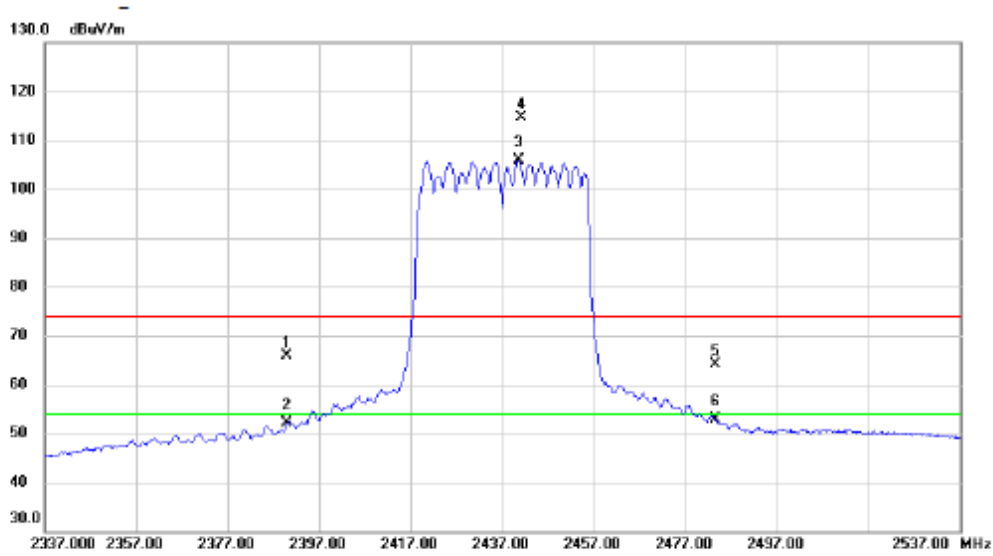


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4843.140	58.79	-14.36	44.43	74.00	-29.57	peak	
2	*	4851.140	47.96	-14.33	33.63	54.00	-20.37	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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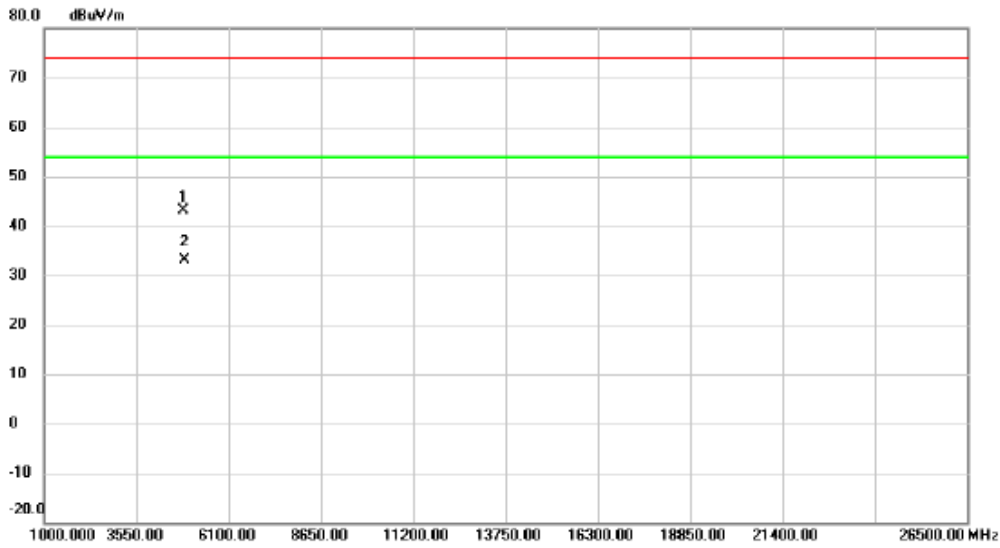
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	33.22	32.63	65.85	74.00	-8.15	peak	
2		2390.000	19.41	32.63	52.04	54.00	-1.96	AVG	
3	*	2440.800	73.09	32.81	105.90	54.00	51.90	AVG	No Limit
4	X	2441.200	81.88	32.82	114.70	74.00	40.70	peak	No Limit
5		2483.500	31.28	32.97	64.25	74.00	-9.75	peak	
6		2483.500	19.80	32.97	52.77	54.00	-1.23	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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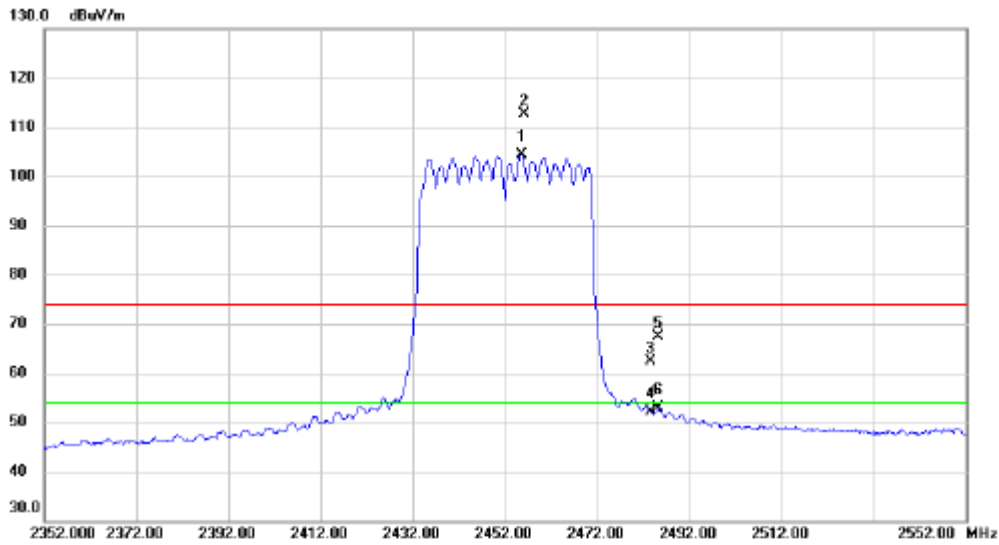


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4864.160	57.36	-14.28	43.08	74.00	-30.92	peak	
2	*	4881.260	47.24	-14.22	33.02	54.00	-20.98	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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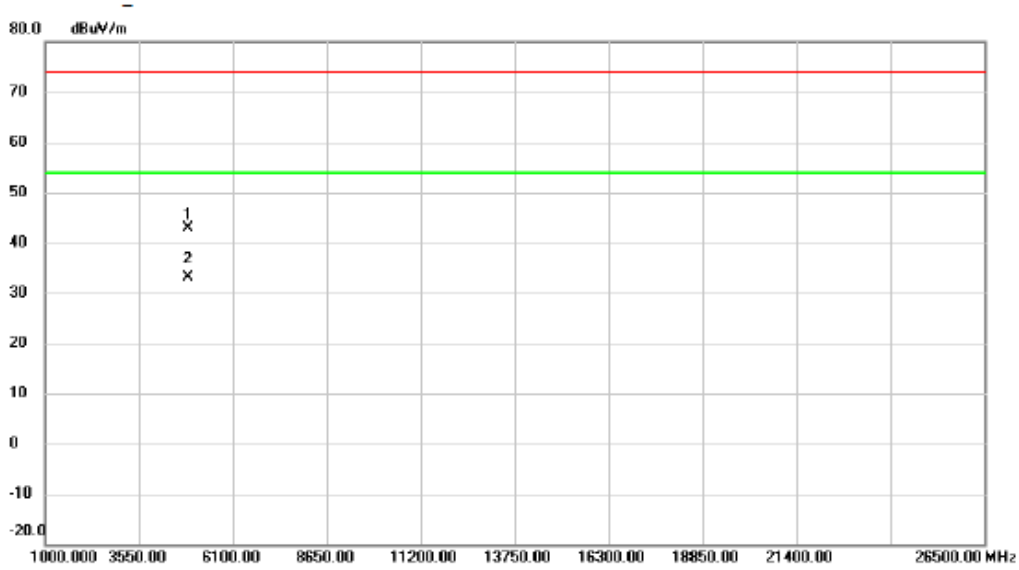


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	2455.600	71.51	32.87	104.38	54.00	50.38	AVG	No Limit
2 X	2456.000	79.81	32.87	112.68	74.00	38.68	peak	No Limit
3	2483.500	29.29	32.97	62.26	74.00	-11.74	peak	
4	2483.500	19.19	32.97	52.16	54.00	-1.84	AVG	
5	2485.200	34.52	32.98	67.50	74.00	-6.50	peak	
6	2485.200	19.78	32.98	52.76	54.00	-1.24	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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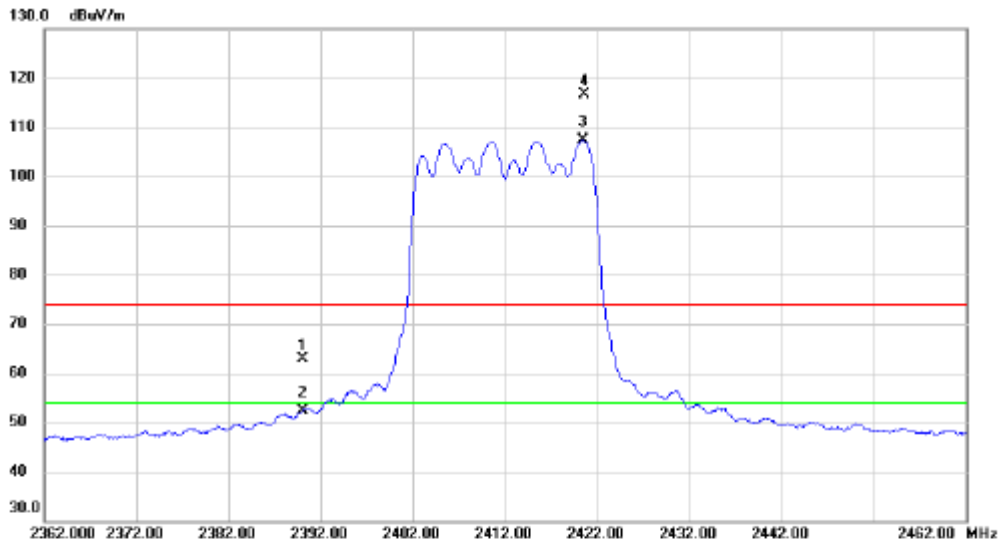


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4899.400	56.96	-14.16	42.80	74.00	-31.20	peak	
2	*	4905.480	47.16	-14.13	33.03	54.00	-20.97	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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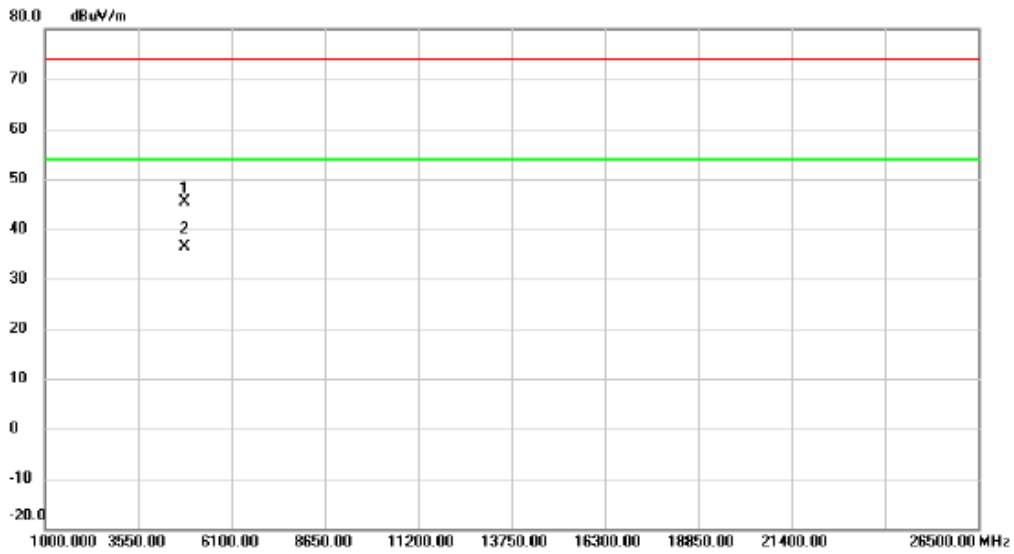


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	30.13	32.63	62.76	74.00	-11.24	peak	
2		2390.000	19.73	32.63	52.36	54.00	-1.64	AVG	
3	*	2420.400	74.58	32.74	107.32	54.00	53.32	AVG	No Limit
4	X	2420.600	83.89	32.75	116.64	74.00	42.64	peak	No Limit

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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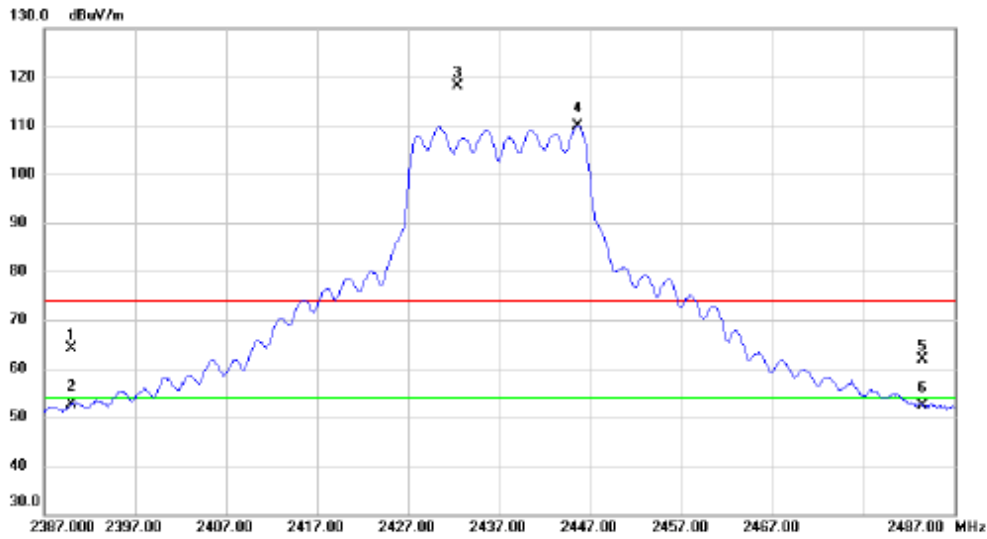


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4821.700	59.88	-14.43	45.45	74.00	-28.55	peak	
2 *	4826.020	50.75	-14.41	36.34	54.00	-17.66	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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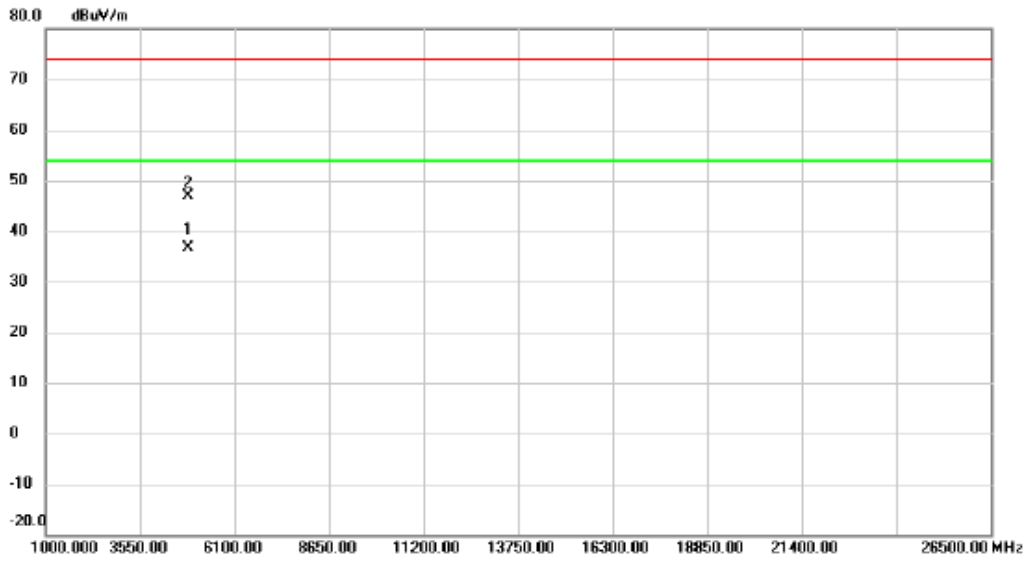


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	31.47	32.63	64.10	74.00	-9.90	peak	
2	2390.000	19.96	32.63	52.59	54.00	-1.41	AVG	
3 X	2432.400	85.41	32.78	118.19	74.00	44.19	peak	No Limit
4 *	2445.600	77.08	32.83	109.91	54.00	55.91	AVG	No Limit
5	2483.500	28.82	32.97	61.79	74.00	-12.21	peak	
6	2483.500	19.33	32.97	52.30	54.00	-1.70	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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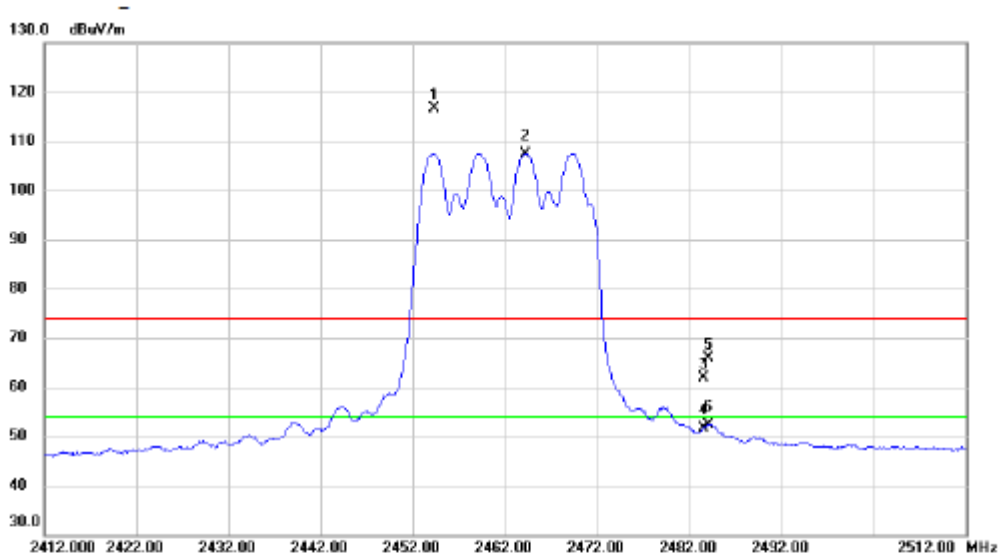


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4871.340	50.82	-14.26	36.56	54.00	-17.44	AVG	
2		4871.400	61.11	-14.26	46.85	74.00	-27.15	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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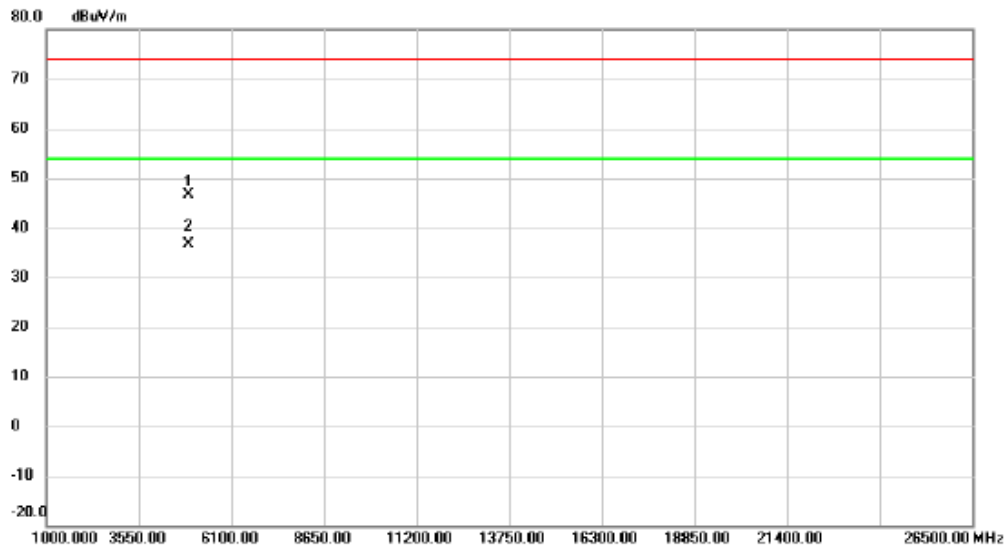
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 X	2454.300	83.87	32.86	116.73	74.00	42.73	peak	No Limit
2 *	2464.200	74.59	32.90	107.49	54.00	53.49	AVG	No Limit
3	2483.500	28.84	32.97	61.81	74.00	-12.19	peak	
4	2483.500	18.74	32.97	51.71	54.00	-2.29	AVG	
5	2484.100	32.78	32.98	65.76	74.00	-8.24	peak	
6	2484.100	19.45	32.98	52.43	54.00	-1.57	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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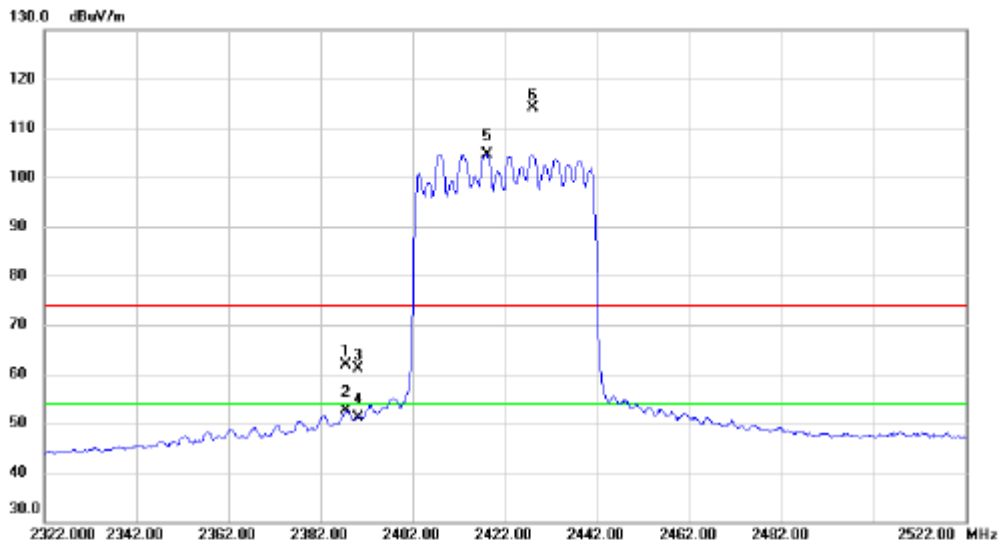


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4915.880	60.80	-14.10	46.70	74.00	-27.30	peak	
2	*	4916.460	50.63	-14.10	36.53	54.00	-17.47	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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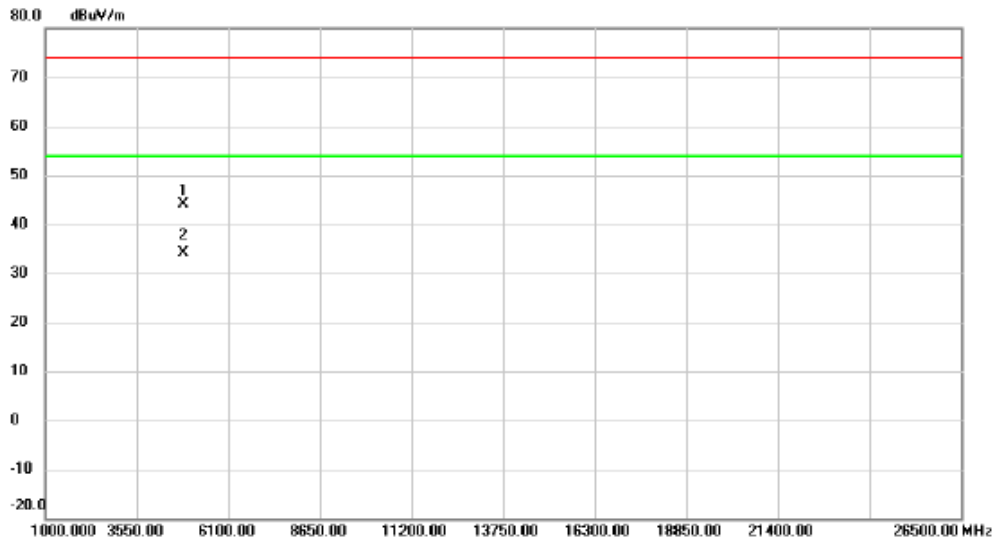


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2387.600	29.34	32.62	61.96	74.00	-12.04	peak	
2	2387.600	19.92	32.62	52.54	54.00	-1.46	AVG	
3	2390.000	28.40	32.63	61.03	74.00	-12.97	peak	
4	2390.000	18.59	32.63	51.22	54.00	-2.78	AVG	
5 *	2418.000	71.89	32.73	104.62	54.00	50.62	AVG	No Limit
6 X	2428.000	81.36	32.77	114.13	74.00	40.13	peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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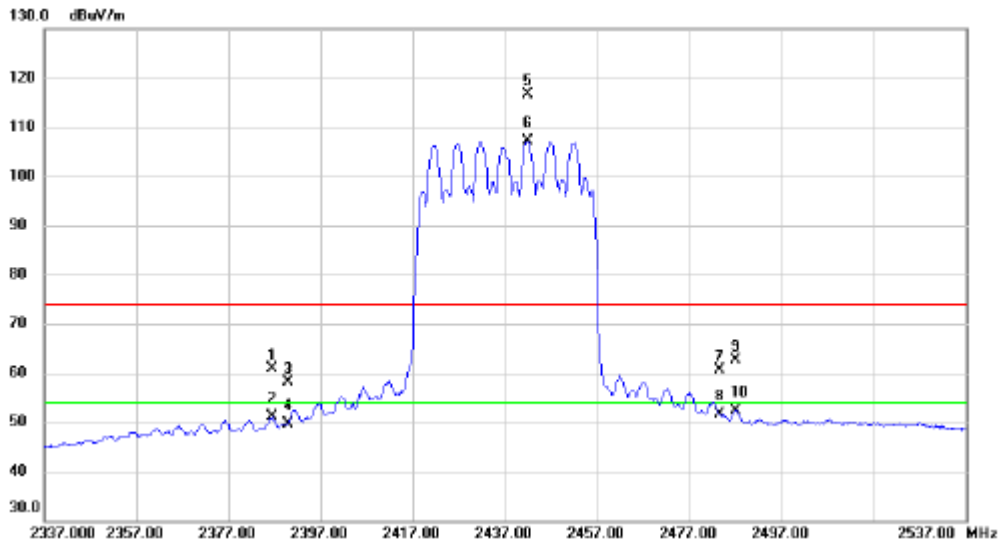


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4851.160	58.50	-14.33	44.17	74.00	-29.83	peak	
2	*	4851.260	48.43	-14.33	34.10	54.00	-19.90	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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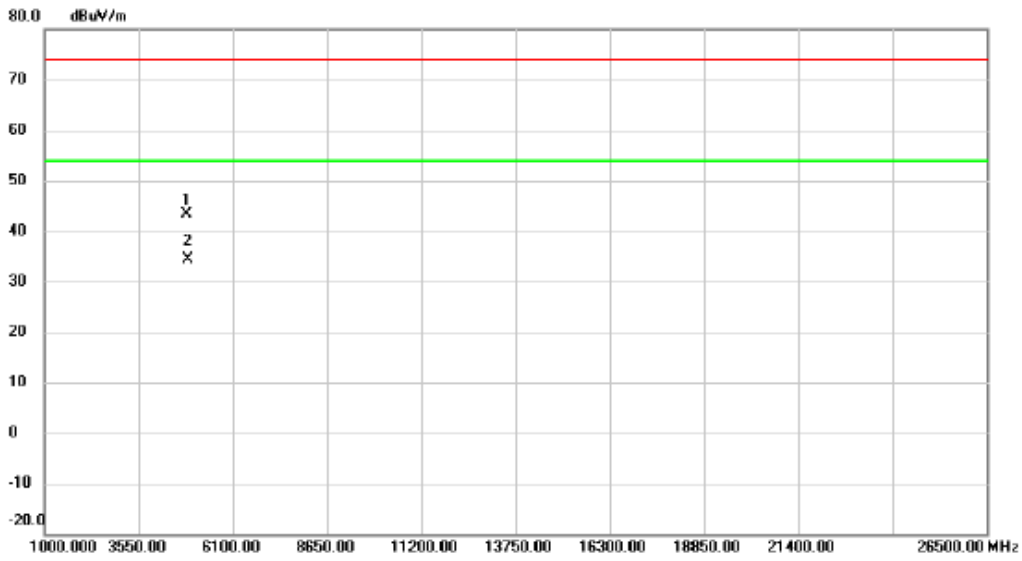


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2386.400	28.31	32.62	60.93	74.00	-13.07	peak	
2		2386.400	18.45	32.62	51.07	54.00	-2.93	AVG	
3		2390.000	25.58	32.63	58.21	74.00	-15.79	peak	
4		2390.000	17.08	32.63	49.69	54.00	-4.31	AVG	
5	X	2441.800	83.81	32.82	116.63	74.00	42.63	peak	No Limit
6	*	2441.800	74.42	32.82	107.24	54.00	53.24	AVG	No Limit
7		2483.500	27.56	32.97	60.53	74.00	-13.47	peak	
8		2483.500	18.59	32.97	51.56	54.00	-2.44	AVG	
9		2487.000	29.58	32.98	62.56	74.00	-11.44	peak	
10		2487.000	19.44	32.98	52.42	54.00	-1.58	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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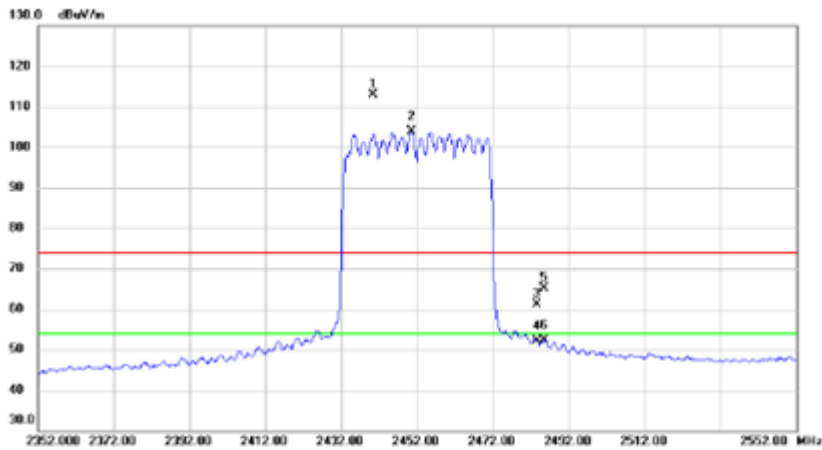


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4871.660	57.71	-14.26	43.45	74.00	-30.55	peak	
2 *	4881.460	48.57	-14.22	34.35	54.00	-19.65	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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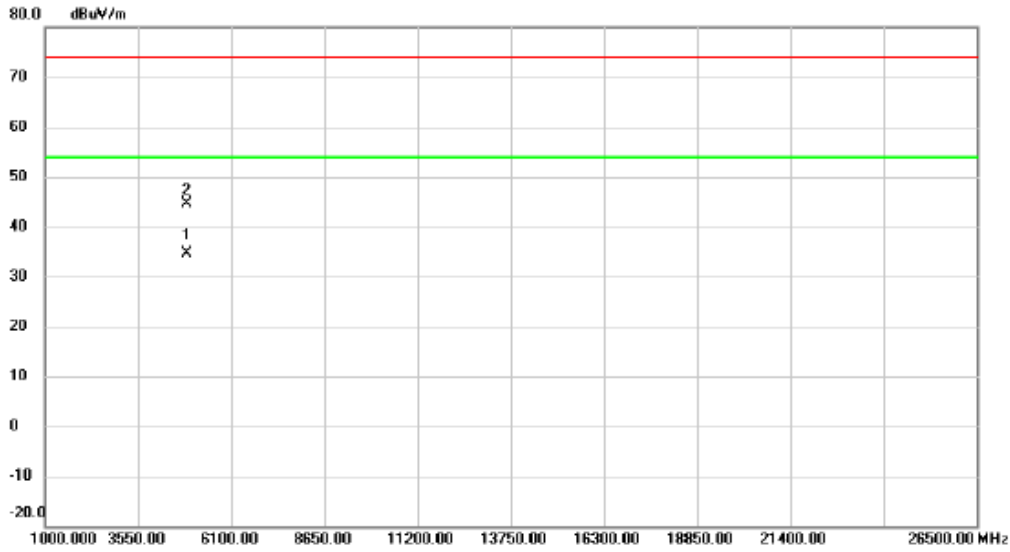


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2440.400	80.14	32.81	112.95	74.00	38.95	peak	No Limit
2	*	2450.400	70.95	32.85	103.80	54.00	49.80	AVG	No Limit
3		2483.500	28.24	32.97	61.21	74.00	-12.79	peak	
4		2483.500	19.14	32.97	52.11	54.00	-1.89	AVG	
5		2485.600	32.15	32.98	65.13	74.00	-8.87	peak	
6		2485.600	19.47	32.98	52.45	54.00	-1.55	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4896.180	48.84	-14.17	34.67	54.00	-19.33	AVG	
2		4896.280	58.80	-14.17	44.63	74.00	-29.37	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

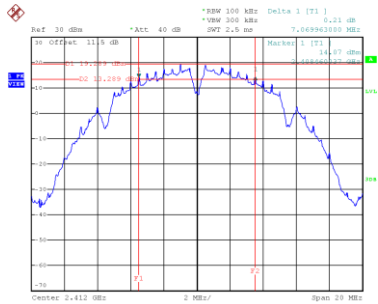
## APPENDIX E - BANDWIDTH



Test Mode	TX B Mode
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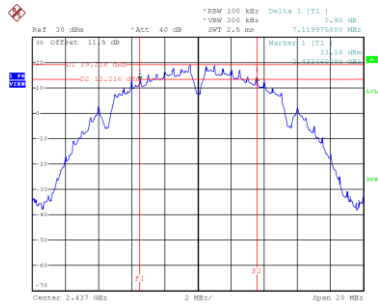
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	7.070	10.640	0.5	Complies
06	2437	7.120	10.720	0.5	Complies
11	2462	7.070	10.560	0.5	Complies

**CH01**



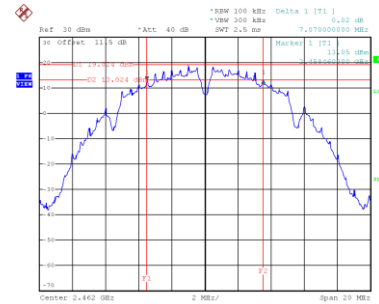
Date: 30\_AUG\_2022 11:57:46

**CH06**  
6 dB Bandwidth



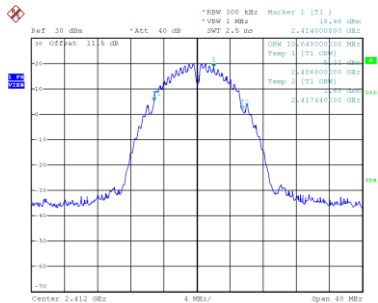
Date: 30\_AUG\_2022 11:59:16

**CH11**

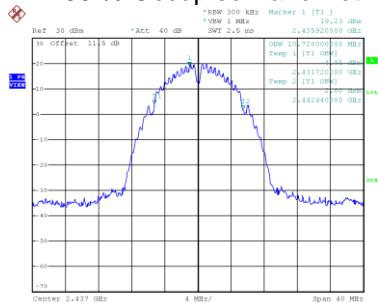


Date: 30\_AUG\_2022 12:00:51

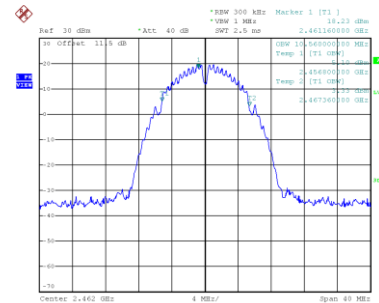
**99 % Occupied Bandwidth**



Date: 30\_AUG\_2022 11:57:52



Date: 30\_AUG\_2022 11:59:22

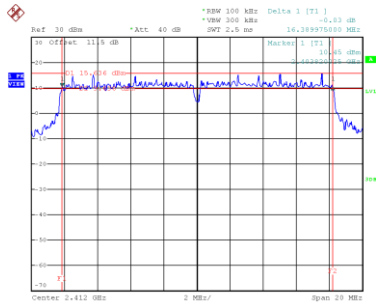


Date: 30\_AUG\_2022 12:00:58

Test Mode	TX G Mode
-----------	-----------

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.390	17.760	0.5	Complies
06	2437	16.400	17.520	0.5	Complies
11	2462	16.400	17.520	0.5	Complies

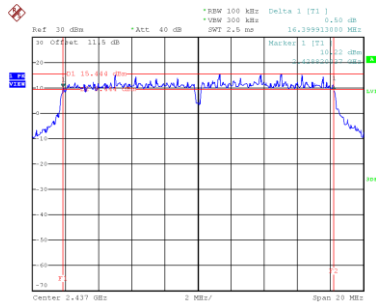
**CH01**



Date: 30\_Mar\_2022 12:03:10

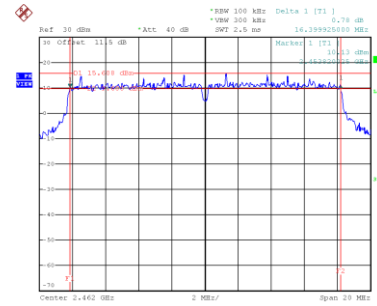
**CH06**

**6 dB Bandwidth**



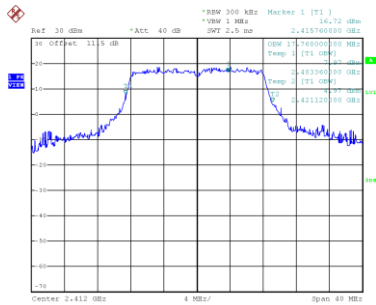
Date: 30\_Mar\_2022 12:04:45

**CH11**

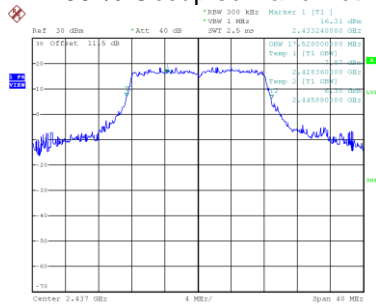


Date: 30\_Mar\_2022 12:06:23

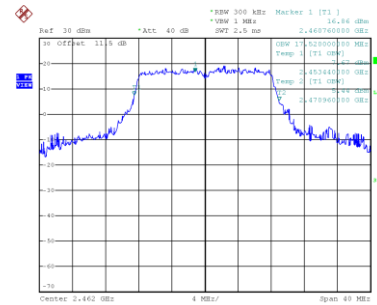
**99 % Occupied Bandwidth**



Date: 30\_Mar\_2022 12:03:07



Date: 30\_Mar\_2022 12:04:52

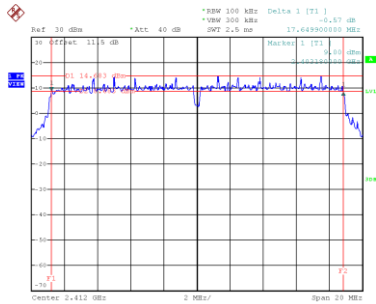


Date: 30\_Mar\_2022 12:06:10

Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.650	18.080	0.5	Complies
06	2437	17.660	18.160	0.5	Complies
11	2462	17.650	18.160	0.5	Complies

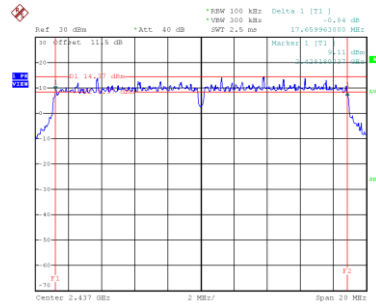
**CH01**



Date: 30\_Mar\_2022 12:10:16

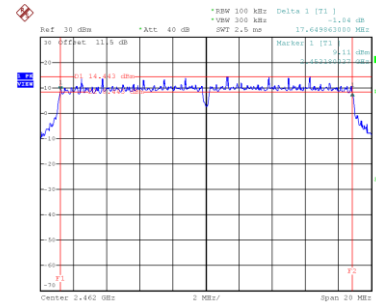
**CH06**

**6 dB Bandwidth**



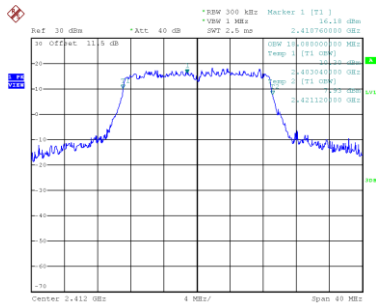
Date: 30\_Mar\_2022 12:11:32

**CH11**

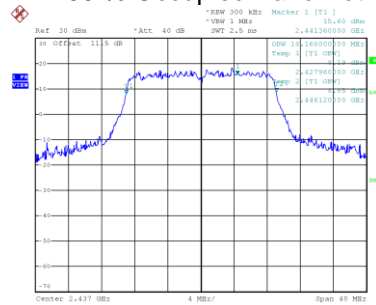


Date: 30\_Mar\_2022 12:12:47

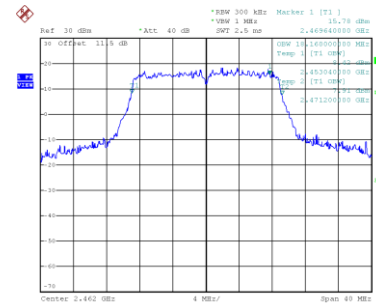
**99 % Occupied Bandwidth**



Date: 30\_Mar\_2022 12:10:22



Date: 30\_Mar\_2022 12:11:39

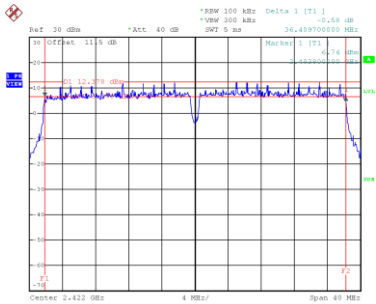


Date: 30\_Mar\_2022 12:12:53

Test Mode	TX N(HT40) Mode
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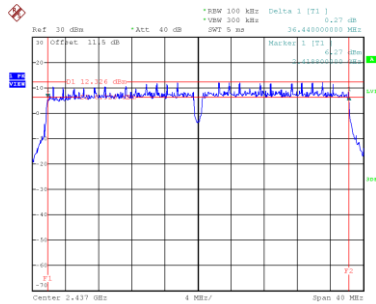
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	36.410	37.120	0.5	Complies
06	2437	36.440	37.120	0.5	Complies
09	2452	36.238	37.120	0.5	Complies

**CH03**



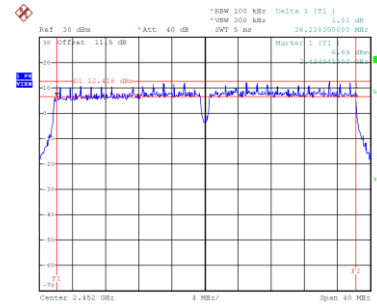
Date: 30\_MNO,2022 12:26:08

**CH06**  
6 dB Bandwidth



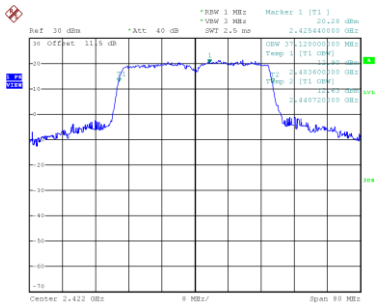
Date: 30\_MNO,2022 12:30:00

**CH09**

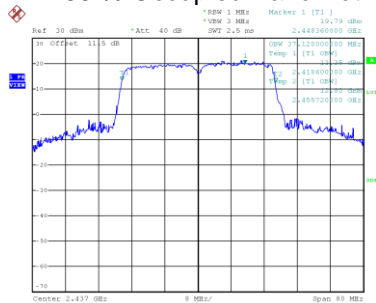


Date: 30\_MNO,2022 12:32:13

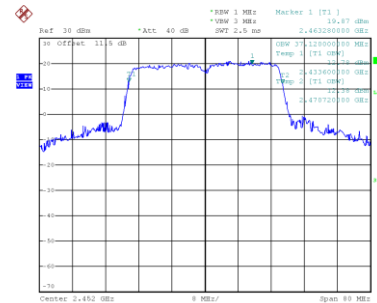
**99 % Occupied Bandwidth**



Date: 30\_MNO,2022 12:26:14



Date: 30\_MNO,2022 12:30:06

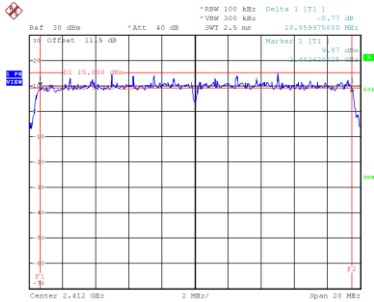


Date: 30\_MNO,2022 12:32:19

Test Mode	TX AX(HE20) Mode
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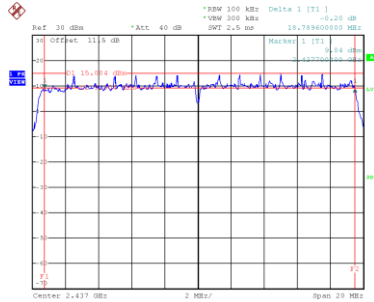
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	18.860	19.440	0.5	Complies
06	2437	18.790	19.360	0.5	Complies
11	2462	18.790	19.360	0.5	Complies

**CH01**



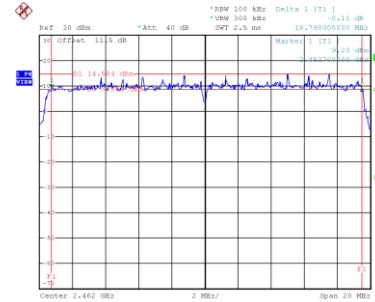
Date: 30\_AUG\_2022 12:11:10

**CH06**  
6 dB Bandwidth



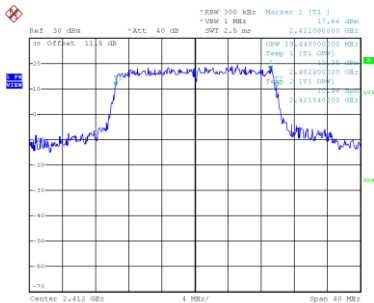
Date: 30\_AUG\_2022 12:11:53

**CH11**

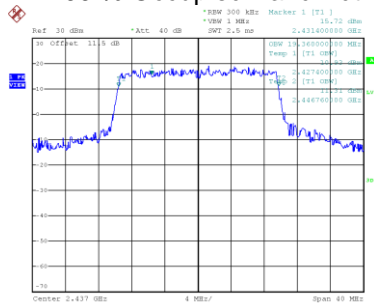


Date: 30\_AUG\_2022 12:17:05

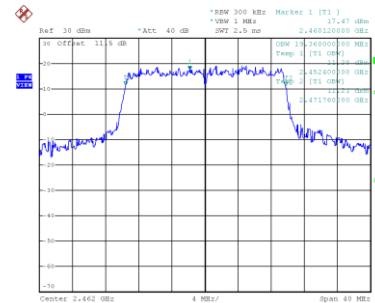
**99 % Occupied Bandwidth**



Date: 30\_AUG\_2022 12:11:17



Date: 30\_AUG\_2022 12:11:59

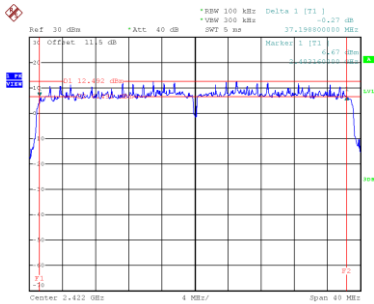


Date: 30\_AUG\_2022 12:17:11

Test Mode	TX AX(HE40) Mode
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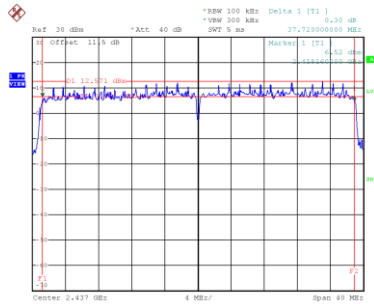
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	37.199	38.240	0.5	Complies
06	2437	37.720	38.240	0.5	Complies
09	2452	37.720	38.240	0.5	Complies

**CH03**



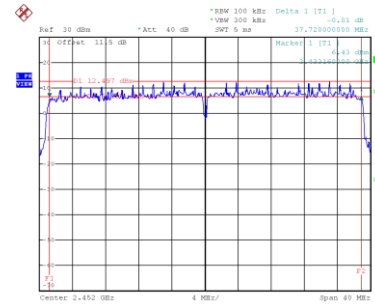
Date: 30\_Mar\_2022 12:41:07

**CH06**  
6 dB Bandwidth



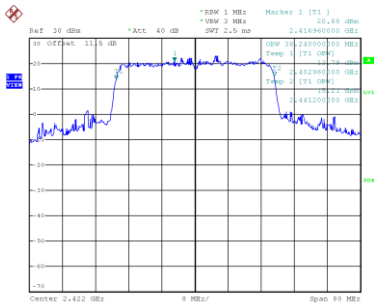
Date: 30\_Mar\_2022 12:42:22

**CH09**

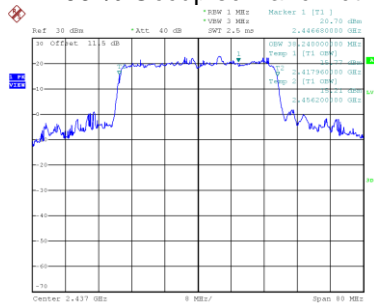


Date: 30\_Mar\_2022 12:43:14

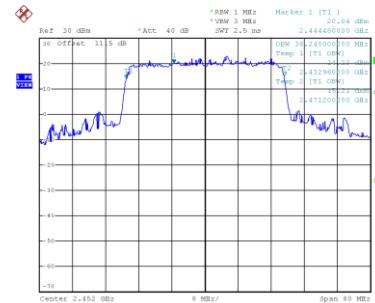
**99 % Occupied Bandwidth**



Date: 30\_Mar\_2022 12:41:14



Date: 30\_Mar\_2022 12:42:26



Date: 30\_Mar\_2022 12:43:16

## APPENDIX F - MAXIMUM OUTPUT POWER

### Non Beamforming

Test Mode	TX B Mode_Ant. 1
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.55	0.22	25.77	30.00	1.0000	Complies
06	2437	25.21	0.22	25.43	30.00	1.0000	Complies
11	2462	25.03	0.22	25.25	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.73	0.21	23.94	30.00	1.0000	Complies
06	2437	24.77	0.21	24.98	30.00	1.0000	Complies
11	2462	23.63	0.21	23.84	30.00	1.0000	Complies



Test Mode	TX N(HT20) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.92	0.23	20.15	30.00	1.0000	Complies
06	2437	25.34	0.23	25.57	30.00	1.0000	Complies
11	2462	19.68	0.23	19.91	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.26	0.23	19.49	30.00	1.0000	Complies
06	2437	24.74	0.23	24.97	30.00	1.0000	Complies
11	2462	19.34	0.23	19.57	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 3
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.69	0.23	18.92	30.00	1.0000	Complies
06	2437	24.17	0.23	24.40	30.00	1.0000	Complies
11	2462	18.77	0.23	19.00	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.32	30.00	1.0000	Complies
06	2437	29.78	30.00	1.0000	Complies
11	2462	24.28	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	19.02	0.43	19.45	30.00	1.0000	Complies
06	2437	20.47	0.43	20.90	30.00	1.0000	Complies
09	2452	18.83	0.43	19.26	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.32	0.43	18.75	30.00	1.0000	Complies
06	2437	20.04	0.43	20.47	30.00	1.0000	Complies
09	2452	18.37	0.43	18.80	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 3
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.86	0.43	18.29	30.00	1.0000	Complies
06	2437	19.52	0.43	19.95	30.00	1.0000	Complies
09	2452	17.88	0.43	18.31	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.63	30.00	1.0000	Complies
06	2437	25.23	30.00	1.0000	Complies
09	2452	23.58	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.71	0.09	19.80	30.00	1.0000	Complies
06	2437	25.39	0.09	25.48	30.00	1.0000	Complies
11	2462	19.14	0.09	19.23	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.87	0.09	18.96	30.00	1.0000	Complies
06	2437	24.85	0.09	24.94	30.00	1.0000	Complies
11	2462	18.73	0.09	18.82	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 3
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.64	0.09	18.73	30.00	1.0000	Complies
06	2437	24.35	0.09	24.44	30.00	1.0000	Complies
11	2462	18.48	0.09	18.57	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Total
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.96	30.00	1.0000	Complies
06	2437	29.75	30.00	1.0000	Complies
11	2462	23.66	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 1
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.88	0.16	19.04	30.00	1.0000	Complies
06	2437	20.48	0.16	20.64	30.00	1.0000	Complies
09	2452	18.55	0.16	18.71	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 2
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.42	0.16	18.58	30.00	1.0000	Complies
06	2437	20.19	0.16	20.35	30.00	1.0000	Complies
09	2452	18.34	0.16	18.50	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 3
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.76	0.16	18.92	30.00	1.0000	Complies
06	2437	19.52	0.16	19.68	30.00	1.0000	Complies
09	2452	17.62	0.16	17.78	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Total
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.63	30.00	1.0000	Complies
06	2437	25.02	30.00	1.0000	Complies
09	2452	23.12	30.00	1.0000	Complies

### Beamforming

<b>Test Mode</b>	TX N(HT20) Mode_Ant. 1
------------------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.63	0.23	19.86	26.66	0.4634	Complies
06	2437	22.08	0.23	22.31	26.66	0.4634	Complies
11	2462	19.46	0.23	19.69	26.66	0.4634	Complies

<b>Test Mode</b>	TX N(HT20) Mode_Ant. 2
------------------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.01	0.23	19.24	26.66	0.4634	Complies
06	2437	21.33	0.23	21.56	26.66	0.4634	Complies
11	2462	19.10	0.23	19.33	26.66	0.4634	Complies

<b>Test Mode</b>	TX N(HT20) Mode_Ant. 3
------------------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.47	0.23	18.70	26.66	0.4634	Complies
06	2437	20.94	0.23	21.17	26.66	0.4634	Complies
11	2462	18.48	0.23	18.71	26.66	0.4634	Complies

<b>Test Mode</b>	TX N(HT20) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.06	26.66	0.4634	Complies
06	2437	26.48	26.66	0.4634	Complies
11	2462	24.03	26.66	0.4634	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.82	0.43	19.25	26.66	0.4634	Complies
06	2437	20.18	0.43	20.61	26.66	0.4634	Complies
09	2452	18.60	0.43	19.03	26.66	0.4634	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.12	0.43	18.55	26.66	0.4634	Complies
06	2437	19.77	0.43	20.20	26.66	0.4634	Complies
09	2452	18.11	0.43	18.54	26.66	0.4634	Complies

Test Mode	TX N(HT40) Mode_Ant. 3
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.58	0.43	18.01	26.66	0.4634	Complies
06	2437	19.29	0.43	19.72	26.66	0.4634	Complies
09	2452	17.61	0.43	18.04	26.66	0.4634	Complies

Test Mode	TX N(HT40) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.41	26.66	0.4634	Complies
06	2437	24.97	26.66	0.4634	Complies
09	2452	23.33	26.66	0.4634	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.50	0.09	19.59	26.66	0.4634	Complies
06	2437	22.17	0.09	22.26	26.66	0.4634	Complies
11	2462	18.87	0.09	18.96	26.66	0.4634	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.66	0.09	18.75	26.66	0.4634	Complies
06	2437	21.58	0.09	21.67	26.66	0.4634	Complies
11	2462	18.48	0.09	18.57	26.66	0.4634	Complies

Test Mode	TX AX(HE20) Mode_Ant. 3
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.40	0.09	18.49	26.66	0.4634	Complies
06	2437	21.06	0.09	21.15	26.66	0.4634	Complies
11	2462	18.26	0.09	18.35	26.66	0.4634	Complies

Test Mode	TX AX(HE20) Mode_Total
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.74	26.66	0.4634	Complies
06	2437	26.49	26.66	0.4634	Complies
11	2462	23.41	26.66	0.4634	Complies

Test Mode	TX AX(HE40) Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.67	0.16	18.83	26.66	0.4634	Complies
06	2437	20.23	0.16	20.39	26.66	0.4634	Complies
09	2452	18.28	0.16	18.44	26.66	0.4634	Complies

Test Mode	TX AX(HE40) Mode_Ant. 2
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.19	0.16	18.35	26.66	0.4634	Complies
06	2437	19.94	0.16	20.10	26.66	0.4634	Complies
09	2452	18.08	0.16	18.24	26.66	0.4634	Complies

Test Mode	TX AX(HE40) Mode_Ant. 3
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.51	0.16	18.67	26.66	0.4634	Complies
06	2437	19.30	0.16	19.46	26.66	0.4634	Complies
09	2452	17.41	0.16	17.57	26.66	0.4634	Complies

Test Mode	TX AX(HE40) Mode_Total
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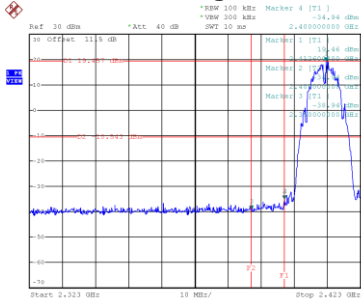
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.40	26.66	0.4634	Complies
06	2437	24.77	26.66	0.4634	Complies
09	2452	22.87	26.66	0.4634	Complies



## **APPENDIX G - CONDUCTED SPURIOUS EMISSIONS**

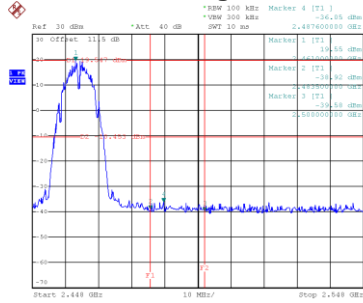
Test Mode TX B Mode\_Ant. 1

### Bandedge-CH01



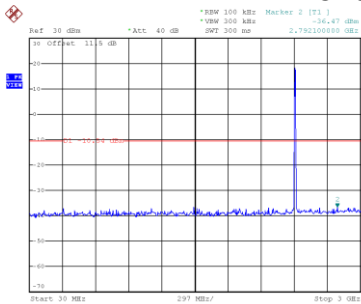
Date: 30\_AUG\_2022 11:57:59

### Bandedge-CH11

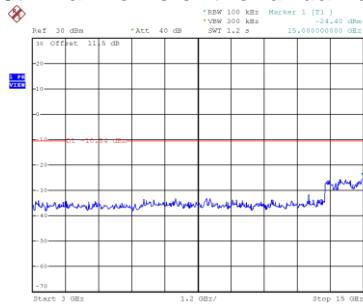


Date: 30\_AUG\_2022 13:00:09

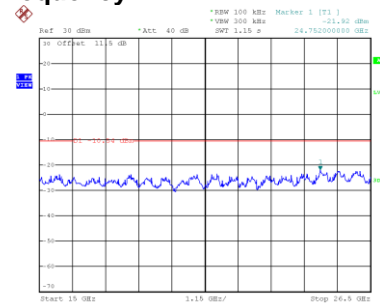
### CH01 – 10th Harmonic of the fundamental frequency



Date: 30\_AUG\_2022 11:58:12

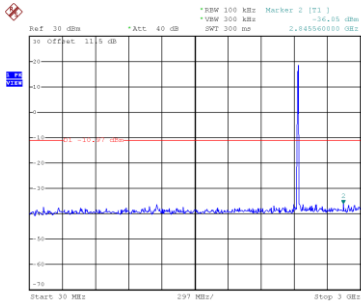


Date: 30\_AUG\_2022 11:58:19

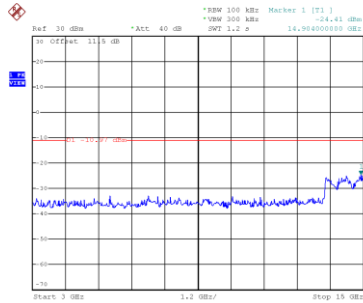


Date: 30\_AUG\_2022 11:58:25

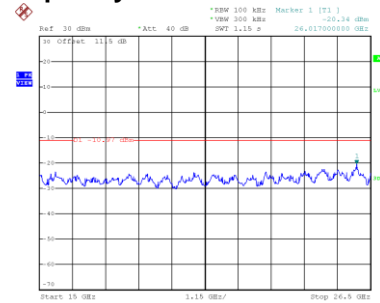
### CH06 – 10th Harmonic of the fundamental frequency



Date: 30\_AUG\_2022 11:59:12

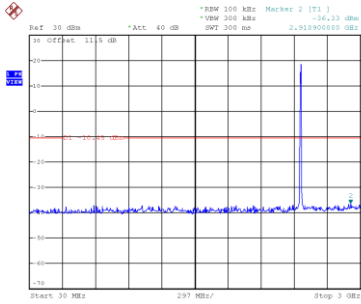


Date: 30\_AUG\_2022 11:59:19

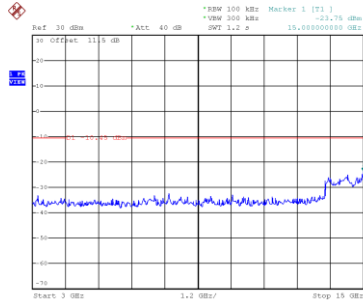


Date: 30\_AUG\_2022 11:59:55

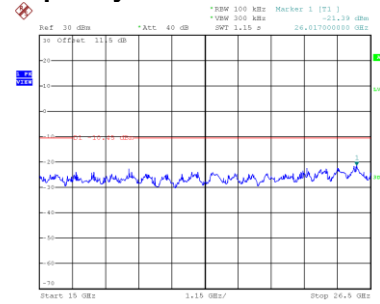
### CH11 – 10th Harmonic of the fundamental frequency



Date: 30\_AUG\_2022 13:00:22



Date: 30\_AUG\_2022 13:00:29



Date: 30\_AUG\_2022 13:00:36